



**Production scientifique  
2012-2015  
Physique des hautes énergies et de la matière condensée**

**\* Projets internationaux financés**

<b>ID</b>	<b>Intitulé</b>	<b>Responsable</b>	<b>Année</b>
220	Train the Trainers in Nuclear Security	El Hassan SAYOUTY	2012

**\*Projets nationaux financés**

<b>ID</b>	<b>Intitulé</b>	<b>Responsable</b>	<b>Année</b>
117	Laboratoire International Associé ILCP	A. Hoummada	2012

## \*Publications indexées

ID	Intitulé	Année	Journal	Auteurs
3362	Observer Design for a Class of Class of Nonlinear Descriptor Systems: A Takagi-Sugeno Approach with Unmeasurable Premise Variables	2015	Journal of Control Science and Engineering	Soulami J., El Assoudi A., Essabre M. , Habibi M., El Yaagoubi E.
3364	Observer design for a class of Takagi-Sugeno descriptor systems: application to an aerobic culture of recombinant yeast	2015	Applied Mathematical Sciences	Soulami J., El Assoudi A., Essabre M., El Yaagoubi E., Habibi M.
3365	State observer design for a class of Takagi-Sugeno discrete-time descriptor systems	2015	Applied Mathematical Sciences	Hmaiddouch I., Bentahra B., El Assoudi A., Soulami J., El Yaagoubi E.
3369	Fuzzy Observer Design for a Class of Takagi-Sugeno Descriptor Systems	2014	Contemporary Engineering Sciences	Essabre M., Soulami J., El Assoudi A., Elyaagoubi E., El Bouatmani E.
3370	An explicit fuzzy observer design for a class of Takagi-Sugeno descriptor systems	2014	Contemporary Engineering Sciences	Hmaiddouch I., Bentahra B., El Assoudi A., Soulami J., El Yaagoubi E.
3373	Design of State Observer for a Class of Nonlinear Singular Systems Described by Takagi-Sugeno Model	2013	Contemporary Engineering Sciences	Essabre M., Soulami J., Elyaagoubi E.
4471	The identification of effective thermal conductivity for fibrous reinforcement composite by inverse method	2014	Journal of Reinforced Plastics and Composites	Saad A., Echchelh A., Hattabi M. , El Ganaoui M.
4473	Modélisation viscoélastique des renforts fibreux dans les procédés de	2014	Revue des Composites et des Matériaux Avancés	NZIENGUI M. B., ABDELLAOUI H., ECHAABI J. , HATTABI M.

ID	Intitulé	Année	Journal	Auteurs
	type Liquid Composite Molding (LCM)			
4476	A new model for the simulation and improvement of resin transfer molding process	2013	Journal of Research on Precision Instrument and Machinery	Saad A., Echchelh A., Hattabi M. , El Ganaoui M.
4477	Numerical Simulation of Thickness Variation Effect on Resin Transfer Molding Process	2012	Polymer Composites	Saad A., Echchelh A., Hattabi M., El Ganaoui M.
4479	Optimization of the cycle time in resin transfer moulding process by numerical simulation	2012	Journal of reinforced plastics and composites	Saad A., Echchelh A., Hattabi M., El Ganaoui M.
4482	Numerical Simulation and Analysis of Flow in Resin Transfer Molding process	2012	Fluid Dynamics & Materials Processing	Saad A., Echchelh A., Hattabi M., El Ganaoui M., Lahlou F.
6155	Testing Hadronic Interaction Models using a Highly Granular Silicon-Tungsten Calorimeter	2015	NIM A 794 (2015) 240-254	CALICE Collaboration
6159	Hadronic energy resolution of a highly granular scintillator-steel calorimeter using software compensation techniques	2012	Journal of Instrumentation JINST 7 (2012) P09017	CALICE Collaboration
6161	Track segments in hadronic showers in a highly granular scintillator-steel hadron calorimeter	2013	Journal of Instrumentation JINST 8 (2013) P09001	CALICE Collaboration
6167	Validation of GEANT4 Monte Carlo Models with a Highly Granular Scintillator-Steel Hadron Calorimeter	2013	Journal of Instrumentation JINST 8 (2013) P07005	CALICE Collaboration

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6170	Pion and proton showers in the CALICE scintillator-steel analogue hadron calorimeter	2015	Journal of Instrumentation JINST 10 (2015) P04014	CALICE Collaboration
6172	Shower development of particles with momenta from 1 to 10 GeV in the CALICE Scintillator-Tungsten HCAL	2014	Journal of Instrumentation JINST 9 (2014) P01004	CALICE Collaboration
6179	Construction and performance of a silicon photomultiplier/extruded scintillator tail-catcher and muon-tracker	2012	Journal of Instrumentation JINST 7 (2012) P04015	CALICE Collaboration
6184	The Time Structure of Hadronic Showers in Highly Granular Calorimeters with Tungsten and Steel Absorbers	2014	Journal of Instrumentation JINST 9 (2014) P07022	CALICE Collaboration
6301	Study of Sapphire and MgO as Thermal Neutron Filters for the Moroccan TRIGA Research Reactor Beam	2013	EEE - DOI: 10.1109/ANIMMA.2013.6728049	N. Zahar, D.Benchekroun, B.Belhorma, P.Hermet, C.Broeders
6925	Mixed spin Ising model with four-spin interaction and random crystal field	2012	Physica B	Benayad Nouredine, Ghliyem Mohamed
6927	Thermodynamical properties of the mixed spin Blume-Capel model with four-spin interactions	2013	Journal of Magnetism and Magnetic Materials	Benayad Nouredine, Ghliyem Mohamed
6930	Thermodynamical properties of the mixed spin transverse Ising model with four-spin interactions	2014	Physica A	Ghliyem Mohamed, Benayad Nouredine, Azhari M.

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6932	Monte Carlo investigation of the mixed spin Ising model with four-spin interaction and next-nearest neighbor couplings	2015	Superlattices and Microstructures	Azhari Mouhcine , Benayad Nouredine , Mouhib Majid
6933	Study of Sodium-Chromium-Iron-Phosphate Glass by XRD, IR, Chemical Durability and SEM	2013	Journal of Materials Science and Chemical Engineering	Makhkhas Youssef , Aqdim Said , Sayouty El Hassan
6934	CHEMICAL DURABILITY AND CHARACTERIZATION OF THE PHOSPHATE GLASSES CONTAINING IRON, SODIUM AND CHROMIUM	2014	International Journal of Advances in Chemistry (IJAC)	Makhkhas Youssef, Sayouty El Hassan
6936	Sensitivity of regional ensemble data assimilation spread to perturbations of lateral boundary conditions	2015	Tellus	El Ouaraini R.*, Berre L., Fischer C. Sayouty Eh.
6987	Search for flavour-changing neutral current top quark decays $t \rightarrow Hqt \rightarrow Hq$ in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector	2015	JHEP 12 (2015) 061	ATLAS Collaboration
6993	Measurement of the $tt^*Wt^*W$ and $tt^*Zt^*Z$ production cross sections in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector	2015	JHEP 11 (2015) 0172	ATLAS Collaboration
6995	Searches for Higgs boson pair production in the $hh \rightarrow bb\tau\tau, \gamma\gamma WW^*, \gamma\gamma bb, bbbb$ channels with the ATLAS detector	2015	Phys. Rev. D 92, 092004 (2015)	ATLAS Collaboration

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7000	Search for pair production of a new heavy quark that decays into a WW boson and a light quark in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector	2015	Phys. Rev. D 92, 112007 (2015)	ATLAS Collaboration
7002	Constraints on new phenomena via Higgs boson couplings and invisible decays with the ATLAS detector	2015	JHEP 11 (2015) 206	ATLAS Collaboration
7008	Summary of the ATLAS experiment's sensitivity to supersymmetry after LHC Run 1 - interpreted in the phenomenological MSSM	2015	JHEP 10 (2015) 134	ATLAS Collaboration
7012	Search for lepton-flavour-violating $H \rightarrow \mu\tau$ decays of the Higgs boson with the ATLAS detector	2015	JHEP11(2015)211	ATLAS Collaboration
7019	Measurement of transverse energy correlations in multi-jet events in pp collisions at $\sqrt{s}=7$ TeV using the ATLAS detector and determination of the strong coupling constant $\alpha_s(m_Z)$	2015	Phys. Lett. B 750 (2015) 427-447	ATLAS Collaboration
7026	Determination of the ratio of bb-quark fragmentation fractions $f_s/f_d$ in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector	2015	Phys. Rev. Lett. 115, 262001 (2015)	ATLAS Collaboration
7029	Measurement of the branching ratio $\Gamma(\Lambda_0 b \rightarrow \psi(2S)\Lambda_0)/\Gamma(\Lambda_0 b \rightarrow J/\psi\Lambda_0)$ with the ATLAS detector	2015	Phys. Lett. B 751 (2015) 63-80	ATLAS Collaboration

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7036	ZZ boson production in p+p+Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV measured with the ATLAS detector	2015	Phys. Rev. C 92, 044915 (2015)	ATLAS Collaboration
7043	Search for photonic signatures of gauge-mediated supersymmetry in 8 TeV pp collisions with the ATLAS detector	2015	Phys. Rev. D 92 (2015) 072001	ATLAS Collaboration
7053	Summary of the searches for squarks and gluinos using $\sqrt{s} = 8$ TeV pp collisions with the ATLAS experiment at the LHC	2015	JHEP 10 (2015) 054	ATLAS Collaboration
7067	Determination of the top-quark pole mass using $t\bar{t} + 1$ -jet events collected with the ATLAS experiment in 7 TeV pp collisions	2015	JHEP 10 (2015) 121	ATLAS Collaboration
7071	ATLAS Run 1 searches for direct pair production of third-generation squarks at the Large Hadron Collider	2015	Eur. Phys. J. C 75 (2015) 510	ATLAS Collaboration
7078	Measurement of the production of neighbouring jets in lead-lead collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ATLAS	2015	Phys. Lett. B 751 (2015) 376	ATLAS Collaboration
7084	Measurement of exclusive $\gamma\gamma \rightarrow \ell^+\ell^-$ production in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector	2015	Physics Letters B 749 (2015) 242-261	ATLAS Collaboration

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7087	Measurement of the production of neighbouring jets in lead-lead collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ATLAS	2015	Phys. Lett. B 751 (2015) 376	ATLAS Collaboration
7090	Study of (W/Z)H(W/Z)H production and Higgs boson couplings using $H \rightarrow WW^*$ decays with the ATLAS detector	2015	JHEP08 (2015) 137	ATLAS Collaboration
7094	Search for heavy Majorana neutrinos with the ATLAS detector in pp collisions at $\sqrt{s}=8$ TeV	2015	JHEP07(2015)162	ATLAS Collaboration
7095	Search for the associated production of the Higgs boson with a top quark pair in multilepton final states with the ATLAS detector	2015	Physics Letters B 749 (2015) 519-541	ATLAS Collaboration
7107	Measurement of colour flow with the jet pull angle in $t\bar{t}$ events using the ATLAS detector at $\sqrt{s}=8$ TeV	2015	Physics Letters B (2015) 475-493	ATLAS Collaboration
7108	Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector	2015	Eur. Phys. J. C75 (2015) 476	ATLAS Collaboration
7110	Modelling $Z \rightarrow \tau\tau$ processes in ATLAS with $\tau\tau$ -embedded $Z \rightarrow \mu\mu$ data	2015	JINST-10-P09018-2015	ATLAS Collaboration
7114	Search for metastable heavy charged particles with large ionisation energy loss in pp collisions at $\sqrt{s} = 8$ TeV	2015	Eur. Phys. J. C (2015) 75:407	ATLAS Collaboration



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	using the ATLAS experiment			
7121	Measurement of the top quark branching ratios into channels with leptons and quarks with the ATLAS detector	2015	Phys. Rev. D 92, 072005 (2015)	ATLAS Collaboration
7128	Search for type-III Seesaw heavy leptons in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS Detector	2015	Phys. Rev. D 92, 032001 (2015)	ATLAS Collaboration
7131	Search for heavy lepton resonances decaying to a ZZ boson and a lepton in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector	2015	JHEP09(2015)108	ATLAS Collaboration
7135	Search for high-mass diboson resonances with boson-tagged jets in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector	2015	JHEP 12 (2015) 55	ATLAS Collaboration
7144	Measurement of differential J/ $\psi$ production cross-sections and forward-backward ratio in p+Pb collisions with the ATLAS detector	2015	Phys. Rev. C 92, 034904 (2015)	ATLAS Collaboration
7147	Search for new light gauge bosons in Higgs boson decays to four-lepton final states in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector at the LHC	2015	Phys. Rev. D 92 (2015) 092001	ATLAS Collaboration
7151	Measurement of the top pair	2015	Phys. Rev. D 91, 112013 (2015)	ATLAS Collaboration

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	production cross-section in 8 TeV proton-proton collisions using kinematic information in the lepton+jets final state with ATLAS			
7155	Search for long-lived, weakly interacting particles that decay to displaced hadronic jets in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector	2015	Phys. Rev. D 92, 012010 (2015)	ATLAS Collaboration
7253	Search for a Charged Higgs Boson Produced in the Vector-boson Fusion Mode with Decay $H^{\pm} \rightarrow W^{\pm} Z H^{\pm} \rightarrow W^{\pm} Z$ using pp Collisions at $\sqrt{s}=8$ TeV with the ATLAS Experiment	2015	Phys. Rev. Lett. 114, 231801 (2015)	ATLAS Collaboration
7256	Search for a Heavy Neutral Particle Decaying to $e\mu$ , $e\tau$ , or $\mu\tau$ in pp Collisions at $\sqrt{s}=8$ TeV with the ATLAS Detector	2015	Phys. Rev. Lett. 115, 031801 (2015)	ATLAS Collaboration
7258	Evidence of $W\gamma\gamma$ production in pppp collisions at $\sqrt{s}=8$ TeV and limits on anomalous quartic gauge couplings with the ATLAS detector	2015	Phys. Rev. Lett. 115, 031802 (2015)	ATLAS Collaboration
7260	Search for massive supersymmetric particles decaying to many jets using the ATLAS detector in pp collisions at $\sqrt{s}=8$ TeV	2015	Phys. Rev. D 91, 112016 (2015)	ATLAS Collaboration
7262	Observation of top-quark pair	2015	Phys. Rev. D 91, 072007 (2015)	ATLAS Collaboration

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	production in association with a photon and measurement of the $t\bar{t}\gamma t\bar{t}\gamma$ production cross section in pp collisions at $\sqrt{s}=7$ TeV using the ATLAS detector			
7264	Search for pair-produced long-lived neutral particles decaying to jets in the ATLAS hadronic calorimeter in pp collisions at $\sqrt{s} = 8$ TeV	2015	Physics Letters B 743 (2015) 15-34	ATLAS Collaboration
7265	Search for Scalar Charm Quark Pair Production in pp Collisions at $\sqrt{s}=8$ TeV with the ATLAS Detector	2015	Phys. Rev. Lett. 114, 161801 (2015)	ATLAS Collaboration
7267	Measurements of the nuclear modification factor for jets in Pb+Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ATLAS detector	2015	Phys. Rev. Lett. 114 (2015) 072302	ATLAS Collaboration
7270	Search for neutral Higgs bosons of the minimal supersymmetric standard model in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector	2014	JHEP11(2014)056	ATLAS Collaboration
7273	Search for non-pointing photons in the diphoton and MET final state in $\sqrt{s} = 8$ TeV pp collisions using the ATLAS detector	2014	Phys. Rev. D. 90, 112005 (2014)	ATLAS Collaboration
7275	Search for pair and single production of new heavy quarks that decay to a ZZ boson and a third-generation	2014	JHEP 11 (2014) 104	ATLAS Collaboration

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	quark in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector			
7277	Measurement of distributions sensitive to the underlying event in inclusive Z-boson production in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector	2014	Eur. Phys. J. C (2014) 74:3195	ATLAS Collaboration
7280	Measurement of long-range pseudorapidity correlations and azimuthal harmonics in $\sqrt{s_{NN}} = 5.02$ TeV proton-lead collisions with the ATLAS detector	2014	Phys. Rev. C 90, 044906	ATLAS Collaboration
7281	Measurement of Higgs boson production in the diphoton decay channel in pp collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector	2014	Phys. Rev. D. 90, 112015 (2014)	ATLAS Collaboration
7283	A measurement of the ratio of the production cross sections for WW and ZZ bosons in association with jets with the ATLAS detector	2014	Eur. Phys. J. C (2014) 74: 3168	ATLAS Collaboration
7286	Measurement of the total cross section from elastic scattering in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector	2014	Nuclear Physics, Section B (2014), pp. 486-548	ATLAS Collaboration
7287	Search for the lepton flavor violating decay $Z \rightarrow e\mu$ in pp collisions at	2014	Phys. Rev. D. 90, 072010 (2014)	ATLAS Collaboration

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	$\sqrt{s}=8$ TeV with the ATLAS detector			
7288	Measurement of flow harmonics with multi-particle cumulants in Pb+Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ATLAS detector	2014	Eur. Phys. J. C (2014) 74: 3157	ATLAS Collaboration
7289	Fiducial and differential cross sections of Higgs boson production measured in the four-lepton decay channel in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector	2014	Physics Letters B 738 (2014) 234-253	ATLAS Collaboration
7290	Search for new resonances in $W\gamma W\gamma$ and $Z\gamma Z\gamma$ Final States in pp Collisions at $\sqrt{s}=8$ TeV with the ATLAS Detector	2014	PLB 738 (2014) 428-447	ATLAS Collaboration
7291	Search for new particles in events with one lepton and missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector	2014	JHEP09(2014)037	ATLAS Collaboration
7292	Search for Scalar Diphoton Resonances in the Mass Range 65-600 GeV with the ATLAS Detector in pp Collision Data at $\sqrt{s} = 8$ TeV	2014	Phys. Rev. Lett. 113, 171801	ATLAS Collaboration
7293	Measurements of jet vetoes and azimuthal decorrelations in dijet events produced in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector	2014	Eur. Phys. J. C (2014) 74:3117	ATLAS Collaboration

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7295	Measurement of the production cross-section of $\psi(2S) \rightarrow J/\psi \rightarrow \mu^+\mu^-$ in pp collisions at $\sqrt{s} = 7$ TeV at ATLAS	2014	JHEP09(2014)079	ATLAS Collaboration
7297	Electron and photon energy calibration with the ATLAS detector using LHC Run 1 data	2014	Eur. Phys. J. C (2014) 74: 3071	ATLAS Collaboration
7299	Measurements of fiducial and differential cross sections for Higgs boson production in the diphoton decay channel at $\sqrt{s} = 8$ TeV with ATLAS	2014	JHEP09(2014)112	ATLAS Collaboration
7301	Measurements of spin correlation in top-antitop quark events from proton-proton collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector	2014	Phys. Rev. D. 90, 112016 (2014)	ATLAS Collaboration
7302	Measurement of the muon reconstruction performance of the ATLAS detector using 2011 and 2012 LHC proton-proton collision data	2014	Eur.Phys.J. C74 (2014) 3130	ATLAS Collaboration
7303	Flavour tagged time dependent angular analysis of the $B_s \rightarrow J/\psi \phi$ decay and extraction of $\Delta\Gamma$ and the weak phase $\phi_1$ in ATLAS	2014	Phys. Rev. D. 90, 052007 (2014)	ATLAS Collaboration
7306	Observation of an excited $B_c$ meson state with the ATLAS detector	2014	Phys. Rev. Lett. 113, 212004 (2014)	ATLAS Collaboration

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7307	Measurement of the cross-section of high transverse momentum vector bosons reconstructed as single jets and studies of jet substructure in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector	2014	2014 New J. Phys. 16 113013	ATLAS Collaboration
7309	Search for pair-produced third-generation squarks decaying via charm quarks or in compressed supersymmetric scenarios in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector	2014	Phys. Rev. D. 90, 052008 (2014)	ATLAS Collaboration
7747	Microscopic study of ground and low-lying states in neutron-rich $^{103,105,107}\text{Mo}$ isotopes within the quasiparticle-phonon coupling plus rotor model	2014	Eur. Phys. J. C (2014) 74:3130	J. Inchaouh,, M. K. Jammari, O. Jdair, A. Khouaja, M. L. Bouhssa, H. Chakir, and A. Morsad
7749	Measurements of top-quark pair differential cross-sections in the $l$ +jets channel in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector	2014	Phys. Rev. D 90, 072004	ATLAS Collaboration
7752	A neural network clustering algorithm for the ATLAS silicon pixel detector	2014	JINST 9 (2014) P09009	ATLAS Collaboration
7753	Comprehensive measurements of t-channel single top-quark production cross sections at $\sqrt{s} = 7$ TeV with the ATLAS detector	2014	Phys. Rev. D. 90, 112006 (2014)	ATLAS Collaboration

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7756	Search for WZ resonances in the fully leptonic channel using pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector	2014	Phys. Lett. B (2014) pp. 223-243	ATLAS Collaboration
7758	Measurement of the Higgs boson mass from the $H \rightarrow \gamma\gamma$ and $H \rightarrow ZZ^* \rightarrow 4\ell$ channels with the ATLAS detector at the LHC	2014	Phys. Rev. D. 90, 052004 (2014)	ATLAS Collaboration
7760	Measurement of inclusive jet charged particle fragmentation functions in Pb+Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector	2014	Physics Letters B 739 (2014) 320-342	ATLAS Collaboration
7762	Measurement of the cross section of high transverse momentum $Z \rightarrow b\bar{b}$ production in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS Detector	2014	Physics Letters B 738 (2014) 25-43	ATLAS Collaboration
7764	Search for charginos nearly mass-degenerate with the lightest neutralino based on a disappearing-track signature in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector	2013	Phys. Rev. D 88, 112006 (2013)	ATLAS Collaboration
7765	Search for Microscopic Black Holes in a Like-sign Dimuon Final State using large Track Multiplicity with the ATLAS detector	2013	Phys. Rev. D 88 (2013) 072001	ATLAS Collaboration
7766	Search for direct third-generation squark pair production in final states	2013	JHEP10(2013)189	ATLAS Collaboration



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	with missing transverse momentum and two b-jets in $\sqrt{s}=8$ TeV pp collisions with the ATLAS detector			
7768	Search for new phenomena using final states with large jet multiplicities and missing transverse momentum with ATLAS in $20 \text{ fb}^{-1}$ of $\sqrt{s} = 8$ TeV proton-proton collisions	2013	JHEP10(2013)130	ATLAS Collaboration
7771	Search for excited electrons and muons with proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector	2013	New J. Phys. 15 (2013) 093011	ATLAS Collaboration
7775	Measurement of top quark polarization in top--antitop events from proton--proton collisions at $s\sqrt{=7s=7}$ TeV using the ATLAS detector	2013	Phys. Rev. Lett 111, 232002 (2013)	ATLAS Collaboration
7777	Measurement of jet shapes in top-quark pair events at $\sqrt{s}=7$ TeV using the ATLAS detector	2013	Eur. Phys. J. C (2013) 73:2676	ATLAS Collaboration
7780	Evidence for the spin-0 nature of the Higgs boson using ATLAS data	2013	Phys. Lett. B 726 (2013), pp. 120-144	ATLAS Collaboration
7781	Measurements of Higgs production and couplings using diboson final states with the ATLAS detector at the LHC	2013	Phys. Lett. B 726 (2013), pp. 88-119	ATLAS Collaboration
7786	Measurement of the Azimuthal Angle	2013	Phys. Rev. Lett 111, 152301 (2013)	ATLAS Collaboration

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	Dependence of Inclusive Jet Yields in Pb+Pb Collisions at $\sqrt{s(NN)}= 2.76$ TeV with the ATLAS detector			
7788	Performance of jet substructure techniques for large-R jets in proton-proton collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector	2013	JHEP09 (2013) 076	ATLAS Collaboration
7790	Measurement of the high-mass Drell--Yan differential cross-section in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector	2013	Phys. Lett. B 725 (2013) pp. 223-242	ATLAS Collaboration
7793	A search for $t\bar{t}$ resonances in the lepton plus jets final state with ATLAS using $4.7 \text{ fb}^{-1}$ of pp collisions at $\sqrt{s} = 7$ TeV	2013	Phys. Rev. D 88, 012004 (2013)	ATLAS Collaboration
7795	Triggers for Displaced Decays of Long-lived Neutral Particles in the ATLAS Detector	2013	JINST 8 (2013) P07015	ATLAS Collaboration
7797	Characterisation and mitigation of beam-induced backgrounds observed in the ATLAS detector during the 2011 proton-proton run	2013	JINST 8 (2013) P07004	ATLAS Collaboration
7798	Search for heavy resonance decaying to $WW$ or $WZ$ in the $lvjj$ and $lvj$ (boosted) final states.	2013	Phys. Rev. D 87, 112006 (2013)	ATLAS Collaboration
7800	Measurement of the production cross	2013	JHEP07(2013)032	ATLAS Collaboration

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	section of jets in association with a Z boson in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector			
7802	Search for non-pointing photons in the diphoton and Emiss final state in $\sqrt{s} = 7$ TeV proton-proton collisions using the ATLAS detector	2013	Phys. Rev. D 88, 012001 (2013)	ATLAS Collaboration
7805	A study of heavy flavor quarks produced in association with top quark pairs at $\sqrt{s}=7$ TeV using the ATLAS detector	2013	Phys. Rev. D 89, 072012 (2014)	ATLAS Collaboration
7807	Measurement of multi-particle azimuthal correlations in proton-lead collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector	2013	Phys. Lett. B 725 (2013), pp. 60-78	ATLAS Collaboration
7808	Search for third generation scalar leptoquarks in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector	2013	JHEP06(2013)033	ATLAS Collaboration
7809	Search for extra dimensions in diphoton events using proton-proton collisions recorded at $\sqrt{s}=7$ TeV with the ATLAS detector at the LHC	2013	New J. Phys. 15 (2013) 043007	ATLAS Collaboration
7810	Search for WH production with a light Higgs boson decaying to prompt electron-jets in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector	2013	New J. Phys. 15 (2013) 043009	ATLAS Collaboration

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7811	Measurements of $W\gamma$ and $Z\gamma$ production in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector at the LHC	2013	Phys. Rev. D 87, 112003 (2013)	ATLAS Collaboration
7813	Measurement of hard double-parton interactions in $W (\rightarrow l\nu) + 2$ jet events at $\sqrt{s} = 7$ TeV with the ATLAS detector	2013	New J. Phys. 15 (2013) 033038	ATLAS Collaboration
7814	Search for new phenomena in events with three charged leptons at $\sqrt{s} = 7$ TeV with the ATLAS detector	2013	Phys. Rev. D 87, 052002 (2013)	ATLAS Collaboration
7816	A search for high-mass resonances decaying to $\tau+\tau^-$ in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector	2013	Phys. Lett. B 719 (2013) 242-260	ATLAS Collaboration
7819	Search for pair production of heavy top-like quarks decaying to a high- $p_T$ W boson and a b quark in the lepton plus jets final state at $\sqrt{s}=7$ TeV with the ATLAS detector	2013	Phys. Lett. B 718 (2013)1284-1302	ATLAS Collaboration
8098	Search for anomalous production of prompt like-sign lepton pairs at $\sqrt{s}=7$ TeV with the ATLAS detector	2012	JHEP 1212 (2012) 007	ATLAS Collaboration
8101	Search for pair production of massive particles decaying into three quarks with the ATLAS detector in $\sqrt{s}=7$ TeV pp collisions at the LHC	2012	JHEP12(2012)086	ATLAS Collaboration

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8104	Search for R-parity-violating supersymmetry in events with four or more leptons in $\sqrt{s} = 7$ TeV pp collisions with the ATLAS detector	2012	JHEP12(2012)124	ATLAS Collaboration
8109	Search for Supersymmetry in Events with Large Missing Transverse Momentum, Jets, and at Least One Tau Lepton in 7 TeV Proton-Proton Collision Data with the ATLAS Detector	2012	Eur. Phys. J. C (2012) 72: 2215	ATLAS Collaboration
8112	Search for resonant top quark plus jet production in $t\bar{t}$ + jets events with the ATLAS detector in pp collisions at $\sqrt{s} = 7$ TeV	2012	Phys. Rev. D 86, 091103 (2012)	ATLAS Collaboration
8115	ATLAS search for a heavy gauge boson decaying to a charged lepton and a neutrino in pp collisions at $\sqrt{s} = 7$ TeV	2012	Eur. Phys. J. C (2012) 72: 2241	ATLAS Collaboration
8118	Search for a heavy top-quark partner in final states with two leptons with the ATLAS detector at the LHC	2012	JHEP11(2012)094	ATLAS Collaboration
8120	Search for high-mass resonances decaying to dilepton final states in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector	2012	JHEP 1211 (2012) 138	ATLAS Collaboration
8123	Search for Diphoton Events with Large Missing Transverse Momentum	2012	Phys. Lett. B 718 (2012) 411-430	ATLAS Collaboration

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	in 5 fb-1 of 7 TeV Proton-Proton Collision Data with the ATLAS Detector			
8125	Measurements of the pseudorapidity dependence of the total transverse energy in proton-proton collisions at $\sqrt{s} = 7$ TeV with ATLAS	2012	JHEP11(2012)033	ATLAS Collaboration
8127	Further search for supersymmetry at $\sqrt{s} = 7$ TeV in final states with jets, missing transverse momentum and isolated leptons with the ATLAS detector	2012	Phys. Rev. D 86, 092002 (2012)	ATLAS Collaboration
8316	Search for light scalar top quark pair production in final states with two leptons with the ATLAS detector in $\sqrt{s} = 7$ TeV proton-proton collisions	2012	Eur. Phys. J. C (2012) 72: 2237	ATLAS Collaboration
8319	Search for direct top squark pair production in final states with one isolated lepton, jets, and missing transverse momentum in $\sqrt{s} = 7$ TeV pp collisions using 4.7 fb-1of ATLAS data	2012	Phys. Rev. Lett. 109, 211803 (2012)	ATLAS Collaboration
8320	Search for direct top squark pair production in final states with one isolated lepton, jets, and missing transverse momentum in $\sqrt{s} = 7$ TeV pp collisions using 4.7 fb-1of ATLAS data	2012	Phys. Rev. Lett. 109, 211803 (2012)	ATLAS Collaboration

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8322	Search for a supersymmetric partner to the top quark in final states with jets and missing transverse energy at $\sqrt{s} = 7$ TeV with the ATLAS detector	2012	Phys. Rev. Lett. 109, 211802 (2012)	ATLAS Collaboration
8323	Measurement of WZ Production in Proton-Proton Collisions at $\sqrt{s} = 7$ TeV with the ATLAS Detector	2012	Eur. Phys. J. C (2012) 72:2173	ATLAS Collaboration
8325	Time dependent angular analysis of the decay $B_s \rightarrow J/\psi \phi$ and extraction of Delta Gammas and the CP-violating weak phase $\phi_{13}$ by ATLAS	2012	JHEP 1212 (2012) 072	ATLAS Collaboration
8327	Underlying event characteristics and their dependence on jet size of charged-particle jet events in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector	2012	Phys. Rev. D 86 (2012) 072004	ATLAS Collaboration
8329	Observation of a new particle in the search for the Standard Model Higgs boson with the ATLAS detector at the LHC	2012	Phys. Lett. B 716 (2012) 1-29	ATLAS Collaboration
8331	Search for magnetic monopoles in $\sqrt{s} = 7$ TeV pp collisions with the ATLAS detector	2012	Phys. Rev. Lett 109, 261803 (2012)	ATLAS Collaboration
8332	Search for top and bottom squarks from gluino pair production in final states with missing transverse energy and at least three b-jets with	2012	Eur. Phys. J. C (2012) 72:2174	ATLAS Collaboration

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	the ATLAS detector			
8333	A search for ttbar resonances in lepton+jets events with highly boosted top quarks collected in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector	2012	JHEP 1209 (2012) 041	ATLAS Collaboration
8338	Combined search for the Standard Model Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector	2012	Phys. Rev. D86 (2012) 032003	ATLAS Collaboration
8340	Search for the Standard Model Higgs boson produced in association with a vector boson and decaying to a b-quark pair with the ATLAS detector	2012	Phys. Lett. B 718 (2012) 369-390	ATLAS Collaboration
8342	Search for the Standard Model Higgs boson in the H to tau+ tau- decay mode in $\sqrt{s} = 7$ TeV pp collisions with ATLAS	2012	JHEP09(2012)070	ATLAS Collaboration
8345	Search for the Higgs boson in the H→WW→lnujj decay channel at $\sqrt{s} = 7$ TeV with the ATLAS detector	2012	Phys. Lett. B 718 (2012) 391-410	ATLAS Collaboration
8348	ATLAS measurements of the properties of jets for boosted particle searches	2012	Phys. Rev. D 86 (2012) 072006	ATLAS Collaboration
8351	Search for a Standard Model Higgs in the mass range 200-600 GeV in the channel H → ZZ → llqq with with the	2012	Phys. Lett. B 717 (2012) 70-88	ATLAS Collaboration



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	ATLAS detector			
8355	Search for a Standard Model Higgs boson in the $H \rightarrow ZZ \rightarrow l\nu\nu$ decay channel using 4.7 fb <sup>-1</sup> of $\sqrt{s} = 7$ TeV data with the ATLAS detector	2012	Phys. Lett. B 717 (2012) 29-48	ATLAS Collaboration
8357	Search for tb resonances in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector	2012	Phys. Rev. Lett. 109 (2012) 081801	ATLAS Collaboration
8360	Search for supersymmetry in events with three leptons and missing transverse momentum in $\sqrt{s} = 7$ TeV pp collisions with the ATLAS detector	2012	Phys. Rev. Lett. 108 (2012) 261804	ATLAS Collaboration
8363	Measurement of the WW cross section in $\sqrt{s} = 7$ TeV pp collisions at ATLAS and limits on anomalous gauge couplings	2012	Physics Letters B 712 (2012) 289-308	ATLAS Collaboration
15608	Dynamic Output Feedback Controller Design for a Class of Takagi-Sugeno Descriptor Systems	2016	American Journal of Computational and Applied Mathematics	Bentahra B., Souлами J., El Bouatmani E., El Assoudi A., El Yaagoubi E.
15609	Fuzzy Observer Design for a Class of Discrete-Time Takagi-Sugeno Descriptor Systems	2016	International Journal of Control Science and Engineering	El Bouatmani E., El Assoudi A., Hmaiddouch I, Souلامي J., El Yaagoubi E.
15610	Observer Design for a Class of Takagi-Sugeno Descriptor Systems with Lipschitz Constraints	2016	Applied Mathematical Sciences	Louzimi A., El Assoudi A., Souلامي J, El Yaagoubi E.
15611	Unknown Input Observer Design for a	2016	Nonlinear Analysis and Differential	Bouassem K., Souلامي J., El Assoudi

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	Class of Takagi-Sugeno Descriptor Systems		Equations	A., El Yaagoubi E
15632	Mixed spin (1/2,1) transverse Ising nanoparticles	2016	Jour. Magn. Magn. Materials	M. Mouhib, N. Benayad*, M. Azhari
15633	Continuum of compensation points in the mixed spin Isingferrimagnet with four-spin interaction and next-nearest neighborcoupling	2016	PHASE TRANSITIONS	M. Azhari, N. Benayad and M. Mouhib
15717	The permeability identification for fibrous reinforcement composite by inverse analysis	2016	Composites: Mechanics, Computations, and Applications: An International Journal	Saad A., Echchelh A., Hattabi M., El Ganaoui M.
15791	Centrality, rapidity and transverse momentum dependence of isolated prompt photon production in lead-lead collisions at $\sqrt{s_{NN}}=2.76$ TeV measured with the ATLAS detector	2016	Phys. Rev.C 93 , 034914	ATLAS Collaboration
15793	Measurements of the Higgs boson production and decay rates and coupling strengths using pp collision data at $\sqrt{s}=7$ and 8 TeV in the ATLAS experiment	2016	Eur. Phys. J. C 76:6	ATLAS Collaboration
15796	Search for an additional, heavy Higgs boson in the $H \rightarrow ZZ$ decay channel at $\sqrt{s} = 8$ TeV in pp collision data with the ATLAS	2016	Eur. Phys. J. C76	ATLAS Collaboration
15798	Study of the $B+c \rightarrow J/\psi D+s$ and	2016	Eur. Phys. J. C, 76(1), 1-24	ATLAS Collaboration

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	B+c→J/ψD*+s decays with the ATLAS detector			
15801	Measurement of the centrality dependence of the charged-particle pseudorapidity distribution in proton--lead collisions at $\sqrt{s_{NN}}=5.02$ TeV with the ATLAS detector	2016	Eur. Phys. J. C (2016) 76:199	ATLAS Collaboration
15802	Constraints on non-Standard Model Higgs boson interactions in an effective Lagrangian using differential cross sections measured in the $H\rightarrow\gamma\gamma$ decay channel at $\sqrt{s}=8$ TeV with the ATLAS detector	2016	Physics Letters B 753 (2016) 69-85	ATLAS Collaboration
15803	Searches for scalar leptoquarks in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector.	2016	Eur. Phys. J. C, 76(1), 1-28 (2016)	ATLAS Collaboration
15804	Search for flavour-changing neutral current top-quark decays to qZ in pp collision data collected with the ATLAS detector at $\sqrt{s}=8$ TeV	2016	Eur. Phys. J. C76 (2016) 12	ATLAS Collaboration
15806	Measurements of fiducial cross-sections for $t\bar{t}$ production with one or two additional b-jets in pp collisions at $\sqrt{s}=8$ TeV using the ATLAS detector	2016	Eur. Phys. J. C (2016) 76:11	ATLAS Collaboration
15807	Search for invisible decays of a Higgs boson using vector-boson fusion in pp	2016	JHEP 01 (2016) 172	ATLAS Collaboration

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	collisions at $\sqrt{s}=8$ TeV with the ATLAS detector			
15809	Search for a high-mass Higgs boson decaying to a W boson pair in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector	2016	JHEP 01 (2016) 032	ATLAS Collaboration
15813	Search for single top-quark production via flavour changing neutral currents at 8 TeV with the ATLAS detector	2016	Eur. Phys. J. C (2016) 76:55	ATLAS Collaboration
15817	Measurement of the charge asymmetry in top-quark pair production in the lepton-plus-jets final state in pp collision data at $\sqrt{s}=8$ TeV with the ATLAS detector	2016	Eur. Phys. J. C76 (2016) 87	ATLAS Collaboration
15823	Observation of long-range elliptic anisotropies in $\sqrt{s}=13$ and 2.76 TeV pp collisions with the ATLAS detector	2016	Phys. Rev. Lett. 116, 172301 (2016)	ATLAS Collaboration
15830	A new method to distinguish hadronically decaying boosted Z bosons from W bosons using the ATLAS detector	2016	Eur. Phys. J. C76 (2016) 238	ATLAS Collaboration
15836	Search for new phenomena in events with at least three photons collected in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector	2016	Eur. Phys. J. C 76(4) , 1-26 (2016)	ATLAS Collaboration

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15837	Search for direct scalar top pair production in final states with two tau leptons in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector	2016	Eur. Phys. J. C (2016) 76:81	ATLAS Collaboration
15838	Measurement of jet charge in dijet events from $\sqrt{s}=8$ TeV pp collisions with the ATLAS detector	2016	Phys. Rev. D93 (2016) 052003	ATLAS Collaboration
15839	Search for the electroweak production of supersymmetric particles in $\sqrt{s}=8$ TeV pp collisions with the ATLAS detector	2016	Phys. Rev. D 93, 052002 (2016)	ATLAS Collaboration
15840	Measurements of four-lepton production in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector	2016	Physics Letters B 753 (2016) 552-572	ATLAS Collaboration
15841	Search for magnetic monopoles and stable particles with high electric charges in 8 TeV pp collisions with the ATLAS detector	2016	Phys. Rev. D 93, 052009 (2016)	ATLAS Collaboration
15842	Search for the production of single vector-like and excited quarks in the $Wt$ final state in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector	2016	JHEP02(2016)110	ATLAS Collaboration
15896	Performance of pile-up mitigation techniques for jets in pp collisions at $\sqrt{s}=8$ TeV using the ATLAS detector	2016	Eur. Phys. J. C (2016) 76:581	ATLAS Collaboration
15898	Measurement of the differential	2016	Phys. Rev. D93 (2016) 032009	ATLAS Collaboration

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	cross-section of highly boosted top quarks as a function of their transverse momentum in $\sqrt{s} = 8$ TeV proton--proton collisions using the ATLAS detector			
15899	Search for dark matter produced in association with a Higgs boson decaying to two bottom quarks in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector	2016	Phys. Rev. D 93, 072007 (2016)	ATLAS Collaboration
15900	Dijet production in $\sqrt{s}=7$ pp collisions with large rapidity gaps at the ATLAS experiment	2016	Phys. Lett. B 754 (2016) 214	ATLAS Collaboration
15901	Search for New Phenomena in Dijet Mass and Angular Distributions from pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector	2016	Physics Letters B 754 (2016) 302-322	ATLAS Collaboration
15917	Measurement of the top quark mass in the $t\bar{t} \rightarrow$ dilepton channel from $\sqrt{s}=8$ TeV ATLAS data	2016	Physics Letters B 761 (2016) 350 - 371	ATLAS Collaboration
15918	Search for pair production of gluinos decaying via stop and sbottom in events with b-jets and large missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector	2016	Phys. Rev. D 94, 032003 (2016)	ATLAS Collaboration
15919	Transverse momentum, rapidity, and	2016	Phys. Lett. B 763 (2016) 313	ATLAS Collaboration

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	centrality dependence of inclusive charged-particle production in $\sqrt{s_{NN}}=5.02$ TeV p+Pb collisions measured by the ATLAS experiment			
15920	Search for new phenomena in final states with an energetic jet and large missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector	2016	Phys. Rev. D 94 (2016) 032005	ATLAS Collaboration
15921	Study of the rare decays of B0s and B0 into muon pairs from data collected during the LHC Run 1 with the ATLAS detector	2016	Eur. Phys. J. C 76 (2016) 513	ATLAS Collaboration
15922	Search for resonances in the mass distribution of jet pairs with one or two jets identified as b-jets in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector	2016	Physics Letters B 759 (2016) 229-246	ATLAS Collaboration
15923	Measurements of $W\pm Z$ production cross sections in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector and limits on anomalous gauge boson self-couplings	2016	Phys. Rev. D 93, 092004 (2016)	ATLAS Collaboration
15924	Search for single production of a vector-like quark via a heavy gluon in the 4b final state with the ATLAS detector in pp collisions at $\sqrt{s}=8$ TeV	2016	Phys. Lett. B 758 (2016) 249	ATLAS Collaboration

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15926	Search for new phenomena in final states with large jet multiplicities and missing transverse momentum with ATLAS using $\sqrt{s}=13$ TeV proton-proton collisions	2016	Physics Letters B 757 (2016) 334-355	ATLAS Collaboration
15927	Measurement of $D^{*\pm}$ , $D^{\pm}$ and $D^{\pm}s$ meson production cross sections in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector	2016	Nucl. Phys. B 907 (2016) 717	ATLAS Collaboration
15929	Evidence for single top-quark production in the s-channel in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector using the Matrix Element Method	2016	Phys. Lett. B 756 (2016) 228-246	ATLAS Collaboration
15931	Search for the Standard Model Higgs boson produced in association with a vector boson and decaying into a tau pair in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector	2016	Phys. Rev. D 93, 092005 (2016)	ATLAS Collaboration
15934	Performance of b-Jet Identification in the ATLAS Experiment	2016	2016 JINST 11 P04008	ATLAS Collaboration
15936	A search for prompt lepton-jets in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector	2016	JHEP02(2016)062	ATLAS Collaboration
15937	Hadron shower decomposition in the highly granular CALICE analogue hadron calorimeter	2016	JINST 11 (2016) P06013	CALICE Collaboration



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15940	Study of Sapphire and MgO as Thermal Neutron Filters for The TRIGA Moroccan Reactor Beam ports	2016	Int. J. of Adv. Res. 4 (7). 560-567 (2016)	N. Zahar, D. Benchekroun, B. Belhorma, P. Hermet and C. Broeders
16061	First results of the CALICE SDHCAL technological prototype	2016	JINST 11 (2016) P04001	CALICE Collaboration
16545	Comparative studies of magnetic and magnetocaloric properties in amorphous Gd <sub>0.67</sub> Y <sub>0.33</sub> and Gd <sub>0.67</sub> Zr <sub>0.33</sub> films	2016	Solid State Communications	G. Alouhmy , R. Moubaha , E.H. Sayouty , H. Lassri
21457	Unknown Input Observer Design for a Class of nonlinear Descriptor Systems: A Takagi-Sugeno Approach with Lipschitz Constraints	2017	Nonlinear Analysis and Differential Equations	LOUZIMI A, EL ASSOUDI A, SOULAMI J, EL YAAGOUBI E
21468	Fuzzy Observer Design for a Class of Takagi-Sugeno Descriptor Systems Subject to Unknown Inputs	2017	Nonlinear Analysis and Differential Equations	BOUASSEM K, EL ASSOUDI A, SOULAMI J, EL YAAGOUBI E
21470	Observer-Based Controller Design for a Class of Takagi-Sugeno Descriptor Systems	2017	Nonlinear Analysis and Differential Equations	BENTAHRA B, SOULAMI J, EL BOUATMANI E, EL ASSOUDI A, EL YAAGOUBI E
21476	Separation Principle for a Class of Takagi-Sugeno Descriptor Models	2017	International Journal of Control Science and Engineering	HMAIDDOUCH I, EL BOUATMANI E, SOULAMI J, EL ASSOUDI A, EL YAAGOUBI E
21481	Observer Design for a Class of Discrete-Time Takagi-Sugeno Implicit Models Subject to Unknown Inputs	2017	American Journal of Computational and Applied Mathematics	LOUZIMI A, EL ASSOUDI A, SOULAMI J, EL YAAGOUBI E
22021	Measurement of the Drell-Yan triple-	2017	JHEP 12 (2017)059	ATLAS Collaboration

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	differential cross section in $pp$ collisions at $\sqrt{s} = 8$ TeV			
22025	Study of ordered hadron chains with the ATLAS detector	2017	PHYSICAL REVIEW D 96, 092008 (2017)	ATLAS Collaboration
22027	Search for a scalar partner of the top quark in the jets plus missing transverse momentum final state at $\sqrt{s} = 13$ TeV with the ATLAS detector	2017	JHEP 12 (2017)085	ATLAS Collaboration
22029	Measurement of the cross-section for electroweak production of dijets in association with a Z boson in $pp$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector	2017	Physics Letters B 775 (2017) 206-228	ATLAS Collaboration
22030	Measurement of lepton differential distributions and the top quark mass in $t\bar{t}$ production in $pp$ collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector	2017	Eur. Phys. J. C (2017) 77:804	ATLAS Collaboration
22034	Searches for the $Z\gamma$ decay mode of the Higgs boson and for new high-mass resonances in $pp$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector	2017	JHEP 10 (2017)112	ATLAS Collaboration
22035	Search for supersymmetry in events with $b$ -tagged jets and missing transverse momentum in $pp$	2017	JHEP 11 (2017)195	ATLAS Collaboration

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	collisions at $\sqrt{s}=13$ TeV with the ATLAS detector			
22036	Search for squarks and gluinos in events with an isolated lepton, jets, and missing transverse momentum at $\sqrt{s}=13$ TeV with the ATLAS detector	2017	PHYSICAL REVIEW D 96, 112010 (2017)	ATLAS Collaboration
22037	Search for new phenomena with large jet multiplicities and missing transverse momentum using large-radius jets and flavour-tagging at ATLAS in 13 TeV $pp$ collisions	2017	JHEP 12 (2017)034	ATLAS Collaboration
22040	Search for direct top squark pair production in final states with two leptons in $\sqrt{s} = 13$ TeV $pp$ collisions with the ATLAS detector	2017	Eur. Phys. J. C (2017) 77:898	ATLAS Collaboration
22041	Search for diboson resonances with boson-tagged jets in $pp$ collisions at $\sqrt{s}=13$ TeV with the ATLAS detector	2017	Physics Letters B 777 (2018) 91-113	ATLAS Collaboration
22042	Search for an invisibly decaying Higgs boson or dark matter candidates produced in association with a $Z$ boson in $pp$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector	2017	Physics Letters B 776 (2018) 318-337	ATLAS Collaboration
22044	Measurements of top-quark pair	2017	JHEP 11 (2017)191	ATLAS Collaboration

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	differential cross-sections in the lepton+jets channel in $pp$ collisions at $\sqrt{s}=13$ TeV using the ATLAS detector			
22045	Measurement of the exclusive $\gamma \rightarrow \mu^+ \mu^-$ process in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector	2017	Physics Letters B 777 (2018) 303-323	ATLAS Collaboration
22047	Measurement of inclusive and differential cross sections in the $H \rightarrow ZZ^* \rightarrow 4\ell$ decay channel in $pp$ collisions at $\sqrt{s}=13$ TeV with the ATLAS detector	2017	JHEP 10 (2017)132	ATLAS Collaboration
22048	Evidence for the $H \rightarrow b\bar{b}$ decay with the ATLAS detector	2017	JHEP 12 (2017)024	ATLAS Collaboration
22049	Study of the material of the ATLAS inner detector for Run 2 of the LHC	2017	JINST 12 P12009 (2017)	ATLAS Collaboration
22050	Study of $WW\gamma$ and $WZ\gamma$ production in $pp$ collisions at $\sqrt{s} = 8$ TeV and search for anomalous quartic gauge couplings with the ATLAS experiment	2017	Eur. Phys. J. C (2017) 77:646	ATLAS Collaboration
22051	Search for top quark decays $t \rightarrow qH$ , with $H \rightarrow \gamma\gamma$ , in	2017	JHEP 10 (2017)129	ATLAS Collaboration

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	$\sqrt{s}=13$ TeV $pp$ collisions using the ATLAS detector			
22052	Search for pair production of heavy vector-like quarks decaying to high- $p_T$ $W$ bosons and $b$ quarks in the lepton-plus-jets final state in $pp$ collisions at $\sqrt{s}=13$ TeV with the ATLAS detector	2017	JHEP 10 (2017)141	ATLAS Collaboration
22054	Search for new phenomena in high-mass diphoton final states using $37 \text{ fb}^{-1}$ of proton-proton collisions collected at $\sqrt{s}=13$ TeV with the ATLAS detector	2017	Physics Letters B 775 (2017) 105-125	ATLAS Collaboration
22055	Search for new high-mass phenomena in the dilepton final state using $36 \text{ fb}^{-1}$ of proton-proton collision data at $\sqrt{s}=13$ TeV with the ATLAS detector	2017	JHEP 10 (2017)182	ATLAS Collaboration
22057	Search for heavy resonances decaying to a $W$ or $Z$ boson and a Higgs boson in the $q\bar{q}^{\prime}b\bar{b}$ final state in $pp$ collisions at $\sqrt{s}=13$ TeV with the ATLAS detector	2017	Physics Letters B 774 (2017) 494-515	ATLAS Collaboration
22058	Search for Heavy Higgs Bosons $A/H$ Decaying to a Top Quark Pair in $pp$ Collisions at $\sqrt{s}=8 \text{ TeV}$ with the	2017	PRL 119, 191803 (2017)	ATLAS Collaboration

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	ATLAS Detector			
22061	Measurement of detector-corrected observables sensitive to the anomalous production of events with jets and large missing transverse momentum in $pp$ collisions at $\sqrt{s}=13$ TeV using the ATLAS detector	2017	Eur. Phys. J. C (2017) 77:765	ATLAS Collaboration
22062	Determination of the strong coupling constant $\alpha_s$ from transverse energy-energy correlations in multijet events at $\sqrt{s} = 8 \sim 13$ TeV using the ATLAS detector	2017	Eur. Phys. J. C (2017) 77:872	ATLAS Collaboration
22063	Analysis of the $Wtb$ vertex from the measurement of triple-differential angular decay rates of single top quarks produced in the $t$ -channel at $\sqrt{s} = 8$ TeV with the ATLAS detector	2017	JHEP 12 (2017)017	ATLAS Collaboration
22064	Search for supersymmetry in final states with two same-sign or three leptons and jets using $36 \text{ fb}^{-1}$ of $\sqrt{s}=13$ TeV $pp$ collision data with the ATLAS detector	2017	JHEP 09 (2017)084	ATLAS Collaboration
22065	Search for direct top squark pair production in events with a Higgs or $Z$ boson, and missing transverse	2017	JHEP 08 (2017)006	ATLAS Collaboration

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	momentum in $\sqrt{s}=13$ TeV $pp$ collisions with the ATLAS detector			
22066	Search for dark matter in association with a Higgs boson decaying to two photons at $\sqrt{s} = 13$ TeV with the ATLAS detector	2017	PHYSICAL REVIEW D 96, 112004 (2017)	ATLAS Collaboration
22067	Measurement of the inclusive jet cross-sections in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector	2017	JHEP 09 (2017)020	ATLAS Collaboration
22068	Measurement of the $\overline{t}\gamma$ production cross section in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector	2017	JHEP 11 (2017)086	ATLAS Collaboration
22069	Measurement of jet $p_{\mathrm{T}}$ correlations in Pb+Pb and $pp$ collisions at $\sqrt{s_{\mathrm{NN}}}=2.76$ TeV with the ATLAS detector	2017	Physics Letters B 774 (2017) 379-402	ATLAS Collaboration
22070	Measurement of $WW/WZ \rightarrow \ell \ell \nu q^{\prime}$ production with the hadronically decaying boson reconstructed as one or two jets in $pp$ collisions at $\sqrt{s}=8$ TeV with ATLAS, and constraints on anomalous gauge couplings	2017	Eur. Phys. J. C (2017) 77:563	ATLAS Collaboration

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22071	Studies of $Z\gamma$ production in association with a high-mass dijet system in $pp$ collisions at $\sqrt{s}=8$ TeV with the ATLAS detector	2017	JHEP 07 (2017)107	ATLAS Collaboration
22072	Search for the dimuon decay of the Higgs boson in $pp$ collisions at $\sqrt{s}=13$ TeV with the ATLAS detector	2017	PRL 119, 051802 (2017)	ATLAS Collaboration
22073	Search for pair production of vector-like top quarks in events with one lepton, jets, and missing transverse momentum in $\sqrt{s}=13$ TeV $pp$ collisions with the ATLAS detector	2017	JHEP 08 (2017)052	ATLAS Collaboration
22074	Measurement of multi-particle azimuthal correlations in $pp$ , $p+Pb$ and low-multiplicity $Pb+Pb$ collisions with the ATLAS detector	2017	Eur. Phys. J. C (2017) 77:428	ATLAS Collaboration
22075	Measurement of $b$ -hadron pair production with the ATLAS detector in proton-proton collisions at $\sqrt{s}=8$ TeV	2017	JHEP 11 (2017)062	ATLAS Collaboration
22076	Identification and rejection of pile-up jets at high pseudorapidity with the ATLAS detector	2017	Eur. Phys. J. C (2017) 77:580	ATLAS Collaboration
22077	Search for new phenomena in a	2017	JHEP 09 (2017)088	ATLAS Collaboration



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	lepton plus high jet multiplicity final state with the ATLAS experiment using $\sqrt{s}=13$ TeV proton-proton collision data			
22078	Performance of the ATLAS Track Reconstruction Algorithms in Dense Environments in LHC Run 2	2017	Eur. Phys. J. C (2017) 77:673	ATLAS Collaboration
22079	Measurements of integrated and differential cross sections for isolated photon pair production in $pp$ collisions at $\sqrt{s}=8$ TeV with the ATLAS detector	2017	PHYSICAL REVIEW D 95, 112005 (2017)	ATLAS Collaboration
22080	Measurement of the $k_{\text{t}}$ splitting scales in $Z \rightarrow \ell\ell$ events in $pp$ collisions at $\sqrt{s}=8$ TeV with the ATLAS detector	2017	JHEP 08 (2017)026	ATLAS Collaboration
22081	Femtосcopy with identified charged pions in proton-lead collisions at $\sqrt{s_{\text{NN}}}=5.02$ TeV with ATLAS	2017	PHYSICAL REVIEW C 96, 064908 (2017)	ATLAS Collaboration
22082	Search for new phenomena in dijet events using 37 fb <sup>-1</sup> of $pp$ collision data collected at $\sqrt{s}=13$ TeV with the ATLAS detector	2017	PHYSICAL REVIEW D 96, 052004 (2017)	ATLAS Collaboration
22083	Measurements of electroweak $W_{jj}$ production and constraints on	2017	Eur. Phys. J. C (2017) 77:474	ATLAS Collaboration

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	anomalous gauge couplings with the ATLAS detector			
22084	Jet reconstruction and performance using particle flow with the ATLAS Detector	2017	Eur. Phys. J. C (2017) 77:466	ATLAS Collaboration
22086	Jet energy scale measurements and their systematic uncertainties in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector	2017	PHYSICAL REVIEW D 96, 072002 (2017)	ATLAS Collaboration
22087	Top-quark mass measurement in the all-hadronic $t \rightarrow b \bar{t}$ decay channel at $\sqrt{s} = 8$ TeV with the ATLAS detector	2017	JHEP 09 (2017)118	ATLAS Collaboration
22091	Probing the W tb vertex structure in t-channel single-top-quark production and decay in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector	2017	JHEP 04 (2017)124	ATLAS Collaboration
22092	Performance of the ATLAS Transition Radiation Tracker in Run 1 of the LHC: tracker properties	2017	JINST 12 P05002	ATLAS Collaboration
22093	Measurements of the production cross section of a $Z\gamma$ boson in association with jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector	2017	Eur. Phys. J. C (2017) 77:361	ATLAS Collaboration

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22095	Measurement of the $t\bar{t}$ production cross section in the $t\bar{t} + \text{jets}$ final state in $pp$ collisions at $\sqrt{s}=8$ TeV using the ATLAS detector	2017	PHYSICAL REVIEW D 95, 072003 (2017)	ATLAS Collaboration
22096	Measurement of the $W^+W^-$ production cross section in $pp$ collisions at a centre-of-mass energy of $\sqrt{s} = 13$ TeV with the ATLAS experiment	2017	Physics Letters B 774 (2017) 494-515	ATLAS Collaboration
22098	Measurement of jet fragmentation in Pb+Pb and $pp$ collisions at $\sqrt{s_{\text{NN}}} = 2.76$ TeV with the ATLAS detector at the LHC	2017	Eur. Phys. J. C (2017) 77:379	ATLAS Collaboration
22099	Fiducial, total and differential cross-section measurements of $t$ -channel single top-quark production in $pp$ collisions at 8 TeV using data collected by the ATLAS detector	2017	Eur. Phys. J. C (2017) 77:531	ATLAS Collaboration
22100	Evidence for light-by-light scattering in heavy-ion collisions with the ATLAS detector at the LHC	2017	NPHYS4208	ATLAS Collaboration
22101	Measurement of the cross section for inclusive isolated-photon production in $pp$ collisions at $\sqrt{s}=13$ TeV using the ATLAS detector	2017	Physics Letters B 770 (2017) 473-493	ATLAS Collaboration

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22102	Measurement of charged-particle distributions sensitive to the underlying event in $\sqrt{s}=13$ TeV proton-proton collisions with the ATLAS detector at the LHC	2017	JHEP 03 (2017)157	ATLAS Collaboration
22105	Precision measurement and interpretation of inclusive $W^+W^-$ , $W^+Z$ and $Z\gamma$ production cross sections with the ATLAS detector	2017	Eur. Phys. J. C (2017) 77:367	ATLAS Collaboration
22106	Measurements of top-quark pair to $Z$ -boson cross-section ratios at $\sqrt{s} = 13, 8, 7$ TeV with the ATLAS detector	2017	JHEP 02 (2017)117	ATLAS Collaboration
22107	Measurements of top-quark pair differential cross-sections in the $e\mu$ channel in $pp$ collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector	2017	Eur. Phys. J. C (2017) 77:292	ATLAS Collaboration
22108	Measurements of top quark spin observables in $t\bar{t}$ events using dilepton final states in $\sqrt{s}=8$ TeV $pp$ collisions with the ATLAS detector	2017	JHEP 03 (2017)113	ATLAS Collaboration
22109	Measurement of the prompt $J/\psi$ pair production cross-section in $pp$ collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector	2017	Eur. Phys. J. C (2017) 77:76	ATLAS Collaboration

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22112	Measurement of the W boson polarisation in $t\bar{t}$ events from pp collisions at $\sqrt{s} = 8$ TeV in the lepton + jets channel with ATLAS	2017	Eur. Phys. J. C (2017) 77:264	ATLAS Collaboration
22113	Electron efficiency measurements with the ATLAS detector using 2012 LHC proton-proton collision data	2017	Eur. Phys. J. C (2017) 77:195	ATLAS Collaboration
22114	Search for new phenomena in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing transverse momentum in $\sqrt{s} = 13$ pp collisions with the ATLAS detector	2017	Eur. Phys. J. C (2017) 77:144	ATLAS Collaboration
22115	Reconstruction of primary vertices at the ATLAS experiment in Run 1 proton-proton collisions at the LHC	2017	Eur. Phys. J. C (2017) 77:332	ATLAS Collaboration
22116	Performance of the ATLAS Trigger System in 2015	2017	Eur. Phys. J. C (2017) 77:317	ATLAS Collaboration
22118	Measurement of $W^{\pm}W^{\pm}$ vector-boson scattering and limits on anomalous quartic gauge couplings with the ATLAS detector	2017	PHYSICAL REVIEW D 96, 012007 (2017)	ATLAS Collaboration
22119	High- $E_T$ isolated-photon plus jets production in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS	2017	Nuclear Physics B 918 (2017) 257-316	ATLAS Collaboration

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	detector			
22120	Search for triboson $W^{\pm}W^{\pm}W^{\mp}$ production in $pp$ collisions at $\sqrt{s}=8$ $\text{TeV}$ with the ATLAS detector	2017	Eur. Phys. J. C (2017) 77:141	ATLAS Collaboration
22121	Measurements of charge and CP asymmetries in $b$ -hadron decays using top-quark events collected by the ATLAS detector in $pp$ collisions at $\sqrt{s}=8$ TeV	2017	JHEP 02 (2017)071	ATLAS Collaboration
22122	Measurements of $\psi(2S)$ and $X(3872) \rightarrow J/\psi\pi^+\pi^-$ production in $pp$ collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector	2017	JHEP 01 (2017)117	ATLAS Collaboration
22123	Measurement of the $ZZ$ production cross section in proton-proton collisions at $\sqrt{s} = 8$ TeV using the $ZZ \rightarrow e\ell^-\ell^+\ell^{\prime-}\ell^{\prime+}$ and $ZZ \rightarrow e\ell^-\ell^+\nu\bar{\nu}$ channels with the ATLAS	2017	JHEP 01 (2017)099	ATLAS Collaboration
22124	Measurement of jet activity produced in top-quark events with an electron, a muon and two $b$ -tagged jets in the final state in $pp$ collisions at	2017	Eur. Phys. J. C (2017) 77:220	ATLAS Collaboration

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	$\sqrt{s}=13$ TeV with the ATLAS detector			
22125	Search for anomalous electroweak production of $WW/WZ$ in association with a high-mass dijet system in $pp$ collisions at $\sqrt{s}=8$ TeV with the ATLAS detector	2017	PHYSICAL REVIEW D 95, 032001 (2017)	ATLAS Collaboration
22126	Performance of algorithms that reconstruct missing transverse momentum in $\sqrt{s}=8$ TeV proton-proton collisions in the ATLAS detector	2017	Eur. Phys. J. C (2017) 77:241	ATLAS Collaboration
22127	Measurements of long-range azimuthal anisotropies and associated Fourier coefficients for $pp$ collisions at $\sqrt{s}=5.02$ and $13$ TeV and $p+Pb$ collisions at $\sqrt{s_{\mathrm{NN}}}=5.02$ TeV with the ATLAS detector	2017	PHYSICAL REVIEW C 96, 024908 (2017)	ATLAS Collaboration
22129	Measurement of the inclusive cross-sections of single top-quark and top-antiquark $t$ -channel production in $pp$ collisions at $\sqrt{s}=13$ TeV with the ATLAS detector	2017	JHEP 04 (2017)086	ATLAS Collaboration
22130	Measurement of the $\bar{t}Z$ and $\bar{t}W$ production cross sections in multilepton final states	2017	Eur. Phys. J. C (2017) 77:40	ATLAS Collaboration

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	using $3.2 \text{ fb}^{-1}$ of $\sqrt{s} = 13 \text{ TeV}$ collisions at the ATLAS detector			
22236	Comparative studies of magnetic and magnetocaloric properties in amorphous $\text{Gd}_{0.67}\text{Y}_{0.33}$ and $\text{Gd}_{0.67}\text{Zr}_{0.33}$ films	2017	Solid State Communications	G. Alouhmy , R. Moubaha , E.H. Sayouty , H. Lassri
22243	Preparation and characterization of Phosphate Material Doped with Chromium	2017	International Journal of Materials Science and Applications	youssef Makhkhas, Saida Krimi, Mohamed Talbi, El Hassan Sayouty
22283	Continuum of compensation points in the mixed spin Isingferrimagnet with four-spin interaction and next-nearest neighbor coupling	2017	Phase Transitions- Taylor & Francis, Vol. 90, 485-499 (2017)	M. Azhari, N. Benayad & M. Mouhib
25486	Local quantum uncertainty for a class of two-qubit X states and quantum correlations dynamics under decoherence	2017	International Journal of Quantum Information 15(2017) 1750020	L. Jebli, B. Benzimoune and M. Daoud
25487	Stabilizer codes and equientangled bases from phase states	2017	Int. J. Mod. Phys. B 31 (2017) 1750132	M. Daoud and M. Mansour
25488	Dynamics Gaussian quantum steering in optomechanics	2017	Eur. Phys. J. D (2017) 71: 122	J. El qars, M. Daoud and R. Ahl Laamara
25489	Generalized graph states and mutually unbiased bases from multi-qudit entangled phase states	2017	Mod. Phys. Lett. B 31 (2017) 1750183	O. Achkir, M. Daoud and M. Mansour
25491	Generalized Grassmann variables for	2017	Journal of Mathematical Physics 58	M. Daoud and L. Gouba



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	quantum kit (k-level) systems and BarutGirardello coherent states for $su(r + 1)$ algebras		(2017) 053509	
25492	Phantom gravastar supported for the explanation of compact dark matter objects	2017	The European Physical Journal Plus (2017) 132: 497	A. Errehymy, M. Daoud and M. K. Jammari
27341	Robustness of the Gaussian interferometric power in two optomechanical systems	2018	International Journal of Quantum Information 16 (02), 1850015	Y Es-Sahely, J El Qars, M Daoud, R Ahl Laamara
27342	Generalized Weyl-Heisenberg Algebra, Qudit Systems and Entanglement Measure of Symmetric States via Spin Coherent States	2018	Entropy 20 (4), 292	M Daoud, MR Kibler
27343	The dynamics of local quantum uncertainty and trace distance discord for two-qubit X states under decoherence: a comparative study	2018	Quantum Information Processing 17 (7), 178	A Slaoui, M Daoud, RA Laamara
27344	Quantifying quantumness of correlations using Gaussian Rényi-2 entropy in optomechanical interfaces	2018	Journal of Modern Optics 65 (13), 1584-1594	J El Qars, M Daoud, R Ahl Laamara
27345	Local quantum uncertainty and trace distance discord dynamics for two-qubit X states embedded in non-Markovian environment	2018	International Journal of Modern Physics B 32 (20), 1850218	Y Khedif, M Daoud
27346	Local quantum uncertainty in XY Z Heisenberg spin models with	2018	The European Physical Journal D 72 (9), 154	N Habiballah, Y Khedif, M Daoud

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	Dzyaloshinski-Moriya interaction			
27347	Universal evolution of non-classical correlations due to collective spontaneous emission	2018	The European Physical Journal Plus 133 (10), 413	A Slaoui, MI Shaukat, M Daoud, RA Laamara
27348	Controlling stationary one-way steering via thermal effects in optomechanics	2018	J El Qars, M Daoud, RA Laamara	J El Qars, M Daoud, RA Laamara
27770	Beam Backgrounds from the LHC with 4 TeV beams	2018	JINST 13 (2018) P12006	ATLAS Collaboration
27771	Observation of H->bb and VH production	2018	Phys. Lett. B 786 (2018) 59	ATLAS Collaboration
27776	Azimuthal anisotropy of charged particles in 5.02 TeV Pb+Pb	2018	Eur. Phys. J. C 78 (2018) 997	ATLAS Collaboration
27785	Search for charged Higgs bosons decaying into top and bottom quarks at $\sqrt{s}=13$ TeV with the ATLAS detector	2018	JHEP 11 (2018) 085	ATLAS Collaboration
27786	Combination of searches for heavy resonances decaying into bosonic and leptonic final states using 36 fb <sup>-1</sup> of proton-proton collision data at $s=13$ TeV with the ATLAS detector	2018	PHYSICAL REVIEW D 98, 052008 (2018)	ATLAS Collaboration
27787	Combination of the Searches for Pair-Produced Vectorlike Partners of the Third-Generation Quarks at $\sqrt{s} = 13$ TeV with the ATLAS Detector	2018	PHYSICAL REVIEW LETTERS 121, 211801 (2018)	ATLAS Collaboration

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27788	Search for pair production of heavy vectorlike quarks decaying into hadronic final states in p p collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector	2018	Phys. Rev. D 98 (2018) 052008	ATLAS Collaboration
27790	Constraints on off-shell Higgs boson production and the Higgs boson total width in $ZZ \rightarrow 4\ell$ and $ZZ \rightarrow 2\ell 2\nu$ final states with the ATLAS detector	2018	Phys. Lett. B 786 (2018) 223	ATLAS Collaboration
27792	Search for Resonant and Nonresonant Higgs Boson Pair Production in the $b^- b^+ \tau^+ \tau^-$ Decay Channel in p p Collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector	2018	Phys. Rev. Lett. 121 (2018) 191801	ATLAS Collaboration
27794	Search for new phenomena in events with same-charge leptons and b-jets in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector	2018	JHEP 12 (2018) 039	ATLAS Collaboration
27798	Search for dark matter in events with a hadronically decaying vector boson and missing transverse momentum in pp collisions at	2018	JHEP 10 (2018) 180	ATLAS Collaboration
27801	Search for Higgs boson pair production in the	2018	Eur. Phys. J. C 78 (2018) 1007	ATLAS Collaboration
27802	Search for Higgs bosons produced via vector-boson fusion and decaying into bottom quark pairs in $\sqrt{s} = 13$	2018	Phys. Rev. D 98 (2018) 052003	ATLAS Collaboration

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	TeV p p collisions with the ATLAS detector			
27803	Search for charged Higgs bosons decaying via $H^\pm \rightarrow \tau^\pm \nu_\tau$ in the $\tau$ +jets and $\tau$ +lepton final states with 36 fb <sup>-1</sup> of pp collision data recorded at $\sqrt{s}=13$ TeV with the ATLAS experiment	2018	JHEP 09 (2018) 139	ATLAS Collaboration
27805	Search for lepton-flavor violation in different-flavor, high-mass final states in p p collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector	2018	Phys. Rev. D 98 (2018) 092008	ATLAS Collaboration
27806	Prompt and non-prompt	2018	Eur. Phys. J. C 78 (2018) 784	ATLAS Collaboration
27807	Search for Higgs boson pair production in the $\gamma\gamma$	2018	JHEP 11 (2018) 040	ATLAS Collaboration
27809	Searches for exclusive Higgs and Z boson decays into $J/\psi \gamma$ , $\psi(2S) \gamma$ , and $\Upsilon(nS) \gamma$ at with the ATLAS detector	2018	Phys. Lett. B 786 (2018) 134	ATLAS Collaboration
27811	Search for pair and single production of vectorlike quarks in final states with at least one Z boson decaying into a pair of electrons or muons in p p collision data collected with the ATLAS detector at $\sqrt{s} = 13$ TeV	2018	Phys. Rev. D 98 (2018) 112010	ATLAS Collaboration
27813	Observation of Centrality-Dependent Acoplanarity for Muon Pairs Produced	2018	Phys. Rev. Lett. 121 (2018) 212301	ATLAS Collaboration

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	via Two-Photon Scattering in Pb + Pb Collisions at $\sqrt{s} = 5.02$ TeV with the ATLAS Detector			
27814	Search for the Higgs boson produced in association with a vector boson and decaying into two spin-zero particles in the $H \rightarrow aa \rightarrow 4b$ channel in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector	2018	JHEP 10 (2018) 031	ATLAS Collaboration
27815	Probing the Quantum Interference between Singly and Doubly Resonant Top-Quark Production in p p Collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector	2018	Phys. Rev. Lett. 121 (2018) 152002	ATLAS Collaboration
27816	Search for pair production of Higgsinos in final states with at least three b -tagged jets in $\sqrt{s} = 13$ TeV p p collisions using the ATLAS detector	2018	Phys. Rev. D 98 (2018) 092002	ATLAS Collaboration
27817	Search for chargino-neutralino production using recursive jigsaw reconstruction in final states with two or three charged leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector	2018	Phys. Rev. D 98 (2018) 092012	ATLAS Collaboration
27818	Operation and performance of the ATLAS Tile Calorimeter in Run 1	2018	Eur. Phys. J. C78 (2018) 987	ATLAS Collaboration
27819	Search for pair production of heavy	2018	JHEP 08 (2018) 048	ATLAS Collaboration

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	vector-like quarks decaying into high-pT W bosons and top quarks in the lepton-plus-jets final state in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector			
27820	Search for resonant WZ production in the fully leptonic final state in proton-proton collisions at with the ATLAS detector	2018	Phys. Lett. B 787 (2018) 68	ATLAS Collaboration
27821	Observation of Higgs boson production in association with a top quark pair at the LHC with the ATLAS detector	2018	Phys. Lett. B 784 (2018) 173	ATLAS Collaboration
27822	Measurement of the Higgs boson mass in the $H \rightarrow ZZ^* \rightarrow 4\ell$ and $H \rightarrow \gamma\gamma$ channels with TeV pp collisions using the ATLAS detector	2018	Phys. Lett. B 784 (2018) 345	ATLAS Collaboration
27823	Search for new phenomena using the invariant mass distribution of same-flavour opposite-sign dilepton pairs in events with missing transverse momentum in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector	2018	Eur. Phys. J. C 78 (2018) 625	ATLAS Collaboration
27824	Combined measurement of differential and total cross sections in the $H \rightarrow \gamma\gamma$ and the $H \rightarrow ZZ^* \rightarrow 4\ell$ decay channels at TeV with the ATLAS detector	2018	Phys. Lett. B 786 (2018) 114	ATLAS Collaboration

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27825	Search for resonances in the mass distribution of jet pairs with one or two jets identified as b -jets in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector	2018	Phys. Rev. D 98 (2018) 032016	ATLAS Collaboration
27826	Measurement of jet fragmentation in Pb+Pb and p p collisions at $\sqrt{s} NN = 5.02$ TeV with the ATLAS detector	2018	Phys. Rev. C 98 (2018) 024908	ATLAS Collaboration
27827	Measurement of the suppression and azimuthal anisotropy of muons from heavy-flavor decays in Pb+Pb collisions at $\sqrt{s} NN = 2.76$ TeV with the ATLAS detector	2018	Phys. Rev. C 98 (2018) 044905	ATLAS Collaboration
27829	Measurement of dijet azimuthal decorrelations in p p collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector and determination of the strong coupling	2018	Phys. Rev. D 98 (2018) 092004	ATLAS Collaboration
27830	Angular analysis of $B_d^0 \rightarrow K^* \mu^+ \mu^-$ decays in pp collisions at	2018	JHEP 10 (2018) 047	ATLAS Collaboration
27832	Prompt and non-prompt	2018	Eur. Phys. J. C 78 (2018) 762	ATLAS Collaboration
27833	Search for flavor-changing neutral currents in top quark decays $t \rightarrow H c$ and $t \rightarrow H u$ in multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector	2018	Phys. Rev. D 98 (2018) 032002	ATLAS Collaboration
27836	Measurement of colour flow using jet-	2018	Eur. Phys. J. C 78 (2018) 847	ATLAS Collaboration

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	pull observables in			
27839	Measurements of b-jet tagging efficiency with the ATLAS detector using	2018	JHEP 08 (2018) 89	ATLAS Collaboration
27840	Search for heavy resonances decaying to a photon and a hadronically decaying Z / W / H boson in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector	2018	Phys. Rev. D 98 (2018) 032015	ATLAS Collaboration
27841	Search for supersymmetry in final states with charm jets and missing transverse momentum in 13 TeV pp collisions with the ATLAS detector	2018	JHEP 09 (2018) 050	ATLAS Collaboration
27842	Search for heavy particles decaying into top-quark pairs using lepton-plus-jets events in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector	2018	Eur. Phys. J. C 78 (2018) 565	ATLAS Collaboration
27843	Search for lepton-flavor-violating decays of the Z boson into a $\tau$ lepton and a light lepton with the ATLAS detector	2018	Phys. Rev. D 98 (2018) 092010	ATLAS Collaboration
27986	Search for supersymmetry in events with four or more leptons in $\sqrt{s} = 13$ TeV p p collisions with ATLAS	2018	Phys. Rev. D 98 (2018) 032009	ATLAS Collaboration
27990	Search for R-parity-violating	2018	Phys. Lett. B 785 (2018) 136	ATLAS Collaboration



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	supersymmetric particles in multi-jet final states produced in p-p collisions at TeV using the ATLAS detector at the LHC			
27994	Search for Low-Mass Dijet Resonances Using Trigger-Level Jets with the ATLAS Detector in p p Collisions at $\sqrt{s} = 13$ TeV	2018	Phys. Rev. Lett. 121 (2018) 081801	ATLAS Collaboration
28003	Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $llbb$ final state in pp collisions at Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $llbb$ final state in pp collisions at TeV with the ATLAS detector $\sqrt{s} = 13$ TeV with the ATLAS detector	2018	Phys. Lett. B 783 (2018) 392	ATLAS Collaboration
28005	Search for Higgs boson decays into pairs of light (pseudo)scalar particles in the $\gamma\gamma jj$ final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector	2018	Phys. Lett. B 782 (2018) 750	ATLAS Collaboration
28010	Search for top squarks decaying to tau sleptons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector	2018	Phys. Rev. D 98 (2018) 032008	ATLAS Collaboration
28013	Search for pair production of up-type vector-like quarks and for four-top-	2018	JHEP 07 (2018) 089	ATLAS Collaboration

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	quark events in final states with multiple b-jets with the ATLAS detector			
28014	Search for flavour-changing neutral current top-quark decays $t \rightarrow qZ$ in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector	2018	JHEP 07 (2018) 176	ATLAS Collaboration
28017	Search for electroweak production of supersymmetric particles in final states with two or three leptons at $\sqrt{s}=13$ TeV with the ATLAS detector	2018	Eur. Phys. J. C 78 (2018) 995	ATLAS Collaboration
28018	Performance of missing transverse momentum reconstruction with the ATLAS detector using proton-proton collisions at $\sqrt{s} = 13$ TeV	2018	Eur. Phys. J. C 78 (2018) 903	ATLAS Collaboration
28023	Measurements of differential cross sections of top quark pair production in association with jets in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector	2018	JHEP 10 (2018) 159	ATLAS Collaboration
28024	Search for the Decay of the Higgs Boson to Charm Quarks with the ATLAS Experiment	2018	Phys. Rev. Lett. 120 (2018) 211802	ATLAS Collaboration
28028	Measurements of Higgs boson properties in the diphoton decay channel with 36 fb <sup>-1</sup> of p p collision data at $\sqrt{s} = 13$ TeV with the ATLAS	2018	Phys. Rev. D 98 (2018) 052005	ATLAS Collaboration

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	detector			
28030	Search for Higgs boson decays to beyond-the-Standard-Model light bosons in four-lepton events with the ATLAS detector at $\sqrt{s}=13$ TeV	2018	JHEP 06 (2018) 166	ATLAS Collaboration
28031	Search for photonic signatures of gauge-mediated supersymmetry in 13 TeV pp collisions with the ATLAS detector	2018	Phys. Rev. D 97 (2018) 092006	ATLAS Collaboration
28203	Monte Carlo investigation of mixed spin Ising 2D-nanoparticles	2018	Journal of Physics Communications	M Mouhib, N Benayad and M Azhari
28204	Exact phase diagram for the mixed spin-1/2 and spin-S Ising models on the square lattice	2018	Journal of Physics Communications	A Dakhama, M Azhari and N Benayad
28353	Design of Unknown Inputs Observer for a Class of Discrete-Time Takagi-Sugeno Descriptor Models	2018	American Journal of Computational and Applied Mathematics	Bouassem K., Souлами J., El Assoudi A., El Yaagoubi E.
28377	REVIEW OF MODELING AND SIMULATION OF VOID FORMATION IN LIQUID COMPOSITE MOLDING	2018	Composites: Mechanics, Computations, Applications: An International Journal	Saad A., Echchelh A., Hattabi M., El Ganaoui M.
28481	Search for a Structure in the $B_0s \pi^\pm$ Invariant Mass Spectrum with the ATLAS Experiment	2018	Phys. Rev. Lett. 120 (2018) 202007	ATLAS Collaboration
28485	Search for $W \rightarrow tb$ decays in the hadronic final state using pp collisions at $\sqrt{s} = 13$ TeV with the	2018	Phys. Lett. B 781 (2018) 327	ATLAS Collaboration

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	ATLAS detector			
28487	Search for High-Mass Resonances Decaying to $\tau \nu$ in p p Collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector	2018	Phys. Rev. Lett. 120 (2018) 161802	ATLAS Collaboration
28488	Measurements of $t \bar{t}$ differential cross-sections of highly boosted top quarks decaying to all-hadronic final states in p p collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector	2018	Phys. Rev. D 98 (2018) 012003	ATLAS Collaboration
28489	Measurement of the cross section for isolated-photon plus jet production in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector	2018	Phys. Lett. B 780 (2018) 578	ATLAS Collaboration
28491	Search for the standard model Higgs boson produced in association with top quarks and decaying into a $b \bar{b}$ pair in p p collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector	2018	Phys. Rev. D 97 (2018) 072016	ATLAS Collaboration
28492	Evidence for the associated production of the Higgs boson and a top quark pair with the ATLAS detector	2018	Phys. Rev. D 97 (2018) 072003	ATLAS Collaboration
28493	Search for electroweak production of supersymmetric states in scenarios with compressed mass spectra at $\sqrt{s} = 13$ TeV with the ATLAS detector	2018	Phys. Rev. D 97 (2018) 052010	ATLAS Collaboration

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28494	Measurement of the inclusive and fiducial	2018	Eur. Phys. J. C 78 (2018) 487	ATLAS Collaboration
28496	Measurement of the production cross section of three isolated photons in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector	2018	Phys. Lett. B 781 (2018) 55	ATLAS Collaboration
28499	Search for heavy ZZ resonances in the $l+l-l+l-$ and $l+l-$	2018	Eur. Phys. J. C 78 (2018) 293	ATLAS Collaboration
28502	Search for heavy resonances decaying into a W or Z boson and a Higgs boson in final states with leptons and b-jets in 36 fb <sup>-1</sup> of $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector	2018	JHEP 03 (2018) 174	ATLAS Collaboration
28504	Search for exclusive Higgs and Z boson decays to $\phi\gamma$ and $\rho\gamma$ with the ATLAS detector	2018	JHEP 07 (2018) 127	ATLAS Collaboration
28506	Search for squarks and gluinos in final states with jets and missing transverse momentum using 36 fb <sup>-1</sup> of $\sqrt{s} = 13$ TeV pp collision data with the ATLAS detector	2018	Phys. Rev. D 97 (2018) 112001	ATLAS Collaboration
28508	Measurement of the Higgs boson coupling properties in the $H \rightarrow ZZ^* \rightarrow 4l$ decay channel at $\sqrt{s}=13$ TeV with the ATLAS detector	2018	JHEP 03 (2018) 095	ATLAS Collaboration

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28719	Search for long-lived charginos based on a disappearing-track signature in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector	2018	JHEP 06 (2018) 022	ATLAS Collaboration
28720	Measurement of differential cross-sections of a single top quark produced in association with a W boson at $\sqrt{s}=13$ TeV with ATLAS	2018	Eur. Phys. J. C 78 (2018) 186	ATLAS Collaboration
28721	Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using 36 fb <sup>-1</sup> of $\sqrt{s}=13$ TeV pp collision data with the ATLAS detector	2018	JHEP 06 (2018) 108	ATLAS Collaboration
28722	Measurement of the Soft-Drop Jet Mass in p p Collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector	2018	Phys. Rev. Lett. 121 (2018) 092001	ATLAS Collaboration
28723	Search for dark matter and other new phenomena in events with an energetic jet and large missing transverse momentum using the ATLAS detector	2018	JHEP 01 (2018) 126	ATLAS Collaboration
28728	Measurement of differential cross sections and W <sup>+</sup> /W <sup>-</sup> cross-section ratios for W boson production in association with jets at $\sqrt{s}=8$ TeV with the ATLAS detector	2018	JHEP 05 (2018) 077	ATLAS Collaboration
28729	Measurement of inclusive jet and	2018	JHEP 05 (2018) 195	ATLAS Collaboration

ID	Intitulé	Année	Journal	Auteurs
	dijet cross-sections in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector			
28730	Search for supersymmetry in final states with missing transverse momentum and multiple b-jets in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector	2018	JHEP 06 (2018) 107	ATLAS Collaboration
28732	Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at $\sqrt{s}=13$ TeV	2018	Eur. Phys. J. C 78 (2018) 199	ATLAS Collaboration
28735	Measurement of differential cross sections of isolated-photon plus heavy-flavour jet production in pp collisions at $\sqrt{s}=8$ TeV using the ATLAS detector	2018	Phys. Lett. B 776 (2018) 295	ATLAS Collaboration
28736	Search for dark matter produced in association with bottom or top quarks in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector	2018	Eur. Phys. J. C 78 (2018) 18	ATLAS Collaboration
28738	Search for W W/W Z resonance production in $\ell\nu qq$ final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector	2018	JHEP 03 (2018) 042	ATLAS Collaboration
28740	A search for pair-produced resonances in four-jet final states at	2018	Eur. Phys. J. C 78 (2018) 250	ATLAS Collaboration

ID	Intitulé	Année	Journal	Auteurs
	$\sqrt{s}=13$ TeV with the ATLAS detector			
28741	Search for B – L R -parity-violating top squarks in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS experiment	2018	Phys. Rev. D 97 (2018) 032003	ATLAS Collaboration
28742	Search for long-lived, massive particles in events with displaced vertices and missing transverse momentum in $\sqrt{s} = 13$ TeV p p collisions with the ATLAS detector	2018	Phys. Rev. D 97 (2018) 052012	ATLAS Collaboration
28746	Measurement of the production cross-section of a single top quark in association with a Z boson in proton-proton collisions at 13 TeV with the ATLAS detector	2018	Phys. Lett. B 780 (2018) 557	ATLAS Collaboration
28749	Search for heavy resonances decaying into WW in the	2018	Eur. Phys. J. C 78 (2018) 24	ATLAS Collaboration
28751	Search for new phenomena in high-mass final states with a photon and a jet from	2018	Eur. Phys. J. C (2018) 102	ATLAS Collaboration
28754	$Z Z \rightarrow \ell + \ell - \ell' + \ell' -$ cross-section measurements and search for anomalous triple gauge couplings in 13 TeV p p collisions with the ATLAS detector	2018	Phys. Rev. D 97 (2018) 032005	ATLAS Collaboration
28757	Search for additional heavy neutral Higgs and gauge bosons in the ditau	2018	JHEP 01 (2018) 055	ATLAS Collaboration



ID	Intitulé	Année	Journal	Auteurs
	final state produced in 36 fb <sup>-1</sup> of pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector			
28759	A search for resonances decaying into a Higgs boson and a new particle X in the $XH \rightarrow qqbb$ final state with the ATLAS detector	2018	Phys. Lett. B 779 (2018) 24	ATLAS Collaboration
28760	Combination of inclusive and differential $t\bar{t}$ charge asymmetry measurements using ATLAS and CMS data at $\sqrt{s}=7$ and 8 TeV	2018	JHEP 04 (2018) 033	ATLAS Collaboration
28762	Direct top-quark decay width measurement in the	2018	Eur. Phys. J. C 78 (2018) 129	ATLAS Collaboration
28891	Measurement of $\tau$ polarisation in $Z/\gamma^* \rightarrow \tau\tau$ decays in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector	2018	Eur. Phys. J. C 78 (2018) 163	ATLAS Collaboration
28894	Measurement of quarkonium production in proton-lead and proton-proton collisions at 5.02 TeV with the ATLAS detector	2018	Eur. Phys. J. C 78 (2018) 171	ATLAS Collaboration
28897	Measurement of longitudinal flow decorrelations in Pb+Pb collisions at $\sqrt{s_{NN}} = 2.76$ and 5.02 TeV with the ATLAS detector	2018	Eur. Phys. J. C 76 (2018) 142	ATLAS Collaboration
28899	Searches for heavy ZZ and ZW	2018	JHEP 03 (2018) 00	ATLAS Collaboration

ID	Intitulé	Année	Journal	Auteurs
	resonances in the $\gamma\gamma$ and $\nu\nu\gamma\gamma$ final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector			
28900	Search for the direct production of charginos and neutralinos in final states with tau leptons in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector	2018	Eur. Phys. J. C 78 (2018) 154	ATLAS Collaboration
28901	Measurement of the exclusive $\gamma\gamma \rightarrow \mu+\mu-$ process in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector	2018	Phys. Lett. B 777 (2018) 303	ATLAS Collaboration
28902	Measurement of long-range multiparticle azimuthal correlations with the subevent cumulant method in p p and p +Pb collisions with the ATLAS detector at the CERN Large Hadron Collider	2018	Phys. Rev. C 97 (2018) 024904	ATLAS Collaboration
28906	Search for a new heavy gauge-boson resonance decaying into a lepton and missing transverse momentum in 36 fb <sup>-1</sup> of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS experiment	2018	Eur. Phys. J. C 78 (2018) 401	ATLAS Collaboration
28909	Measurement of the W-boson mass in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector	2018	Eur. Phys. J. C 78 (2018) 110	ATLAS Collaboration
28911	Measurement of the cross-section for	2018	JHEP 01 (2018) 63	ATLAS Collaboration

ID	Intitulé	Année	Journal	Auteurs
	producing a W boson in association with a single top quark in pp collisions at $\sqrt{s} = 13$ TeV with ATLAS			

### \*Communications internationales

ID	Intitulé	Auteurs	Conférence	Ville	Pays	Date
4967	Rheological study of fibrous reinforcements behavior during liquid composite molding process	Batane M., Echchelh A., Hattabi M.	asem15	Incheon	Korea	2015-08-25
4970	The identification of effective thermal conductivity for fibrous reinforcement composite by inverse method	Saad A., Echchelh A., Hattabi M., El Ganaoui M.	The First Thermal Fluids Engineering Summer Conference	New York	USA	2015-08-09
6320	Study of Sapphire and MgO as Thermal Neutron Filters for the Moroccan TRIGA Research Reactor Beam	N. Zahar, D.Benchekroun, B.Belhorma, P.Hermet, C.Broeders	ANIMMA 2013 - Advancements in Nuclear Instrumentation Measurement Methods and their Applications	Marseille	France	2013-06-23
6939	Developing Nuclear Security Curriculum in Morocco	Sayouty Eh.	Conference on Nuclear Training and Education (CONTE 2013)	Jacksonville, FL	USA	2013-03-03
6941	PHOSPHATE GLASSES:	Makhkhas Y., Sayouty Eh.	Eighth International	Tunis	Tunisie	2013-09-01

	Structure and Chemical Durability: Case of oxide glass doped with Chrome: $30\text{Fe}_2\text{O}_3-x\text{CrO}_3-(15-x)\text{Na}_2\text{O}-55\text{P}_2\text{O}_5$		Conference on Magnetic and Superconducting Materials "MSM13"			
6943	Preparation and characterization of phosphate materials based on iron, doped with chromium	Makhkhas Y., Krimi S., Sayouty Eh.	Eighth International Conference on Magnetic and Superconducting Materials "MSM13"	Tunis	Tunisie	2013-09-01
6945	Enabling capacity building in Morocco	Sayouty Eh.	First Training Meeting on Uranium Exploration, Mining and Processing in Francophone Africa	Vienne	Autriche	2015-11-16
6947	Uranium prospects in Morocco	Sayouty Eh.	Regional Training Course on Uranium: From exploration to production	Entebbe	Uganda	2014-03-02
6951	Uranium prospects in Morocco	Sayouty Eh.	Leadership Academy in Sustainable Uranium and Critical Materials Production from Phosphates	Nanchang	Chine	2015-08-24
16547						

**\*Communications nationales**

ID	Intitulé	Auteurs	Conférence	Ville	Date
4976	The numerical simulation of effective thermal conductivity for fibrous reinforcement composite by inverse method	Saad A., Echchelh A., Hattabi M., El Ganaoui M.	12ème Congrès de Mécanique	Casablanca	2015-04-19
7962	X-ray Diffraction, Mössbauer spectroscopy and infrared spectra studies of glasses	makhkhas Y., Krimi S., Sayouty Eh.	Rencontre annuelle plénière du RUPHE	Marrakech	2015-06-05
7967	propriétés structurales et spectroscopie Mössbauer des nouveaux verres de phosphate en vue de leur utilisation dans divers domaines technologiques	makhkhas Y., Krimi S., Sayouty Eh.	Journées Doctorales CPM -2015	Rabat	2015-06-13
7976	Study Of Iron Phosphate glasses doped with Cr2O3 using Mossbauer spectroscopy	makhkhas Y., Sayouty Eh.	Huitième rencontre des jeunes chercheurs en physique	casablanca	2015-12-21
15718	The numerical study of temperature effect on the optimisation of the cycle time in resin transfer molding process	Saad A., Echchelh A., Hattabi M., El Ganaoui M.	International Conference on Computing and Wireless Communication Systems (ICCWCS'16)	Settat	2016-11-15
15719	Modelisation Des Bulles Dans Les Procédés De Liquid Composite Molding (LCM)	Benakrach H, Hattabi M., Echchelh A.	Le 10ème Congrès Francophone de Génie des Procédés CFGP 2016	SAFI	2016-04-27
16065	Recherche des résonances dibosons dans le canal lvqq au LHC avec le détecteur ATLAS	K. Bouaouda	Première Rencontre Nationale de Physique des Particules à Safi	Safi	2016-11-04

ID	Intitulé	Auteurs	Conférence	Ville	Date
16066	Recherche des neutrinos stériles dans l'expérience Stéreo	I. El Atmani	Première Rencontre Nationale de Physique des Particules à Safi	Safi	2016-11-04
16067	La recherche des bosons de Higgs chargés dans l'expérience ATLAS	Z. Chadi	Première Rencontre Nationale de Physique des Particules à Safi	Safi	2016-11-04
16812	Preparation and characterization of Iron Phosphate Glasses	Anouar ETTAYK, EL Hassan SAYOUTY	Scientific English Day	Casablanca	2016-05-05
22520	Statut de l'expérience STEREO : Exemple d'étude de Calibration interne	I. El Atmani	Journées Nationales des doctorants et des jeunes chercheurs	Rabat	2017-07-18
22522	Détection des neutrinos stériles auprès de réacteur ILL	I. El Atmani	Journées Nationales des doctorants et des jeunes chercheurs	Rabat	2017-07-18
22524	Preparation of realistic wilcards for FTK pattern banks, including their effect on efficiency and data flow of the data flow of the system to dead module	K. Bouaouda	High Energy Physics Workshop in Morocco	Tanger	2017-10-27
22526	Searches about charged Higgs Bosons for $H \rightarrow tb$ and MVA Reconstruction	Z. Chadi	High Energy Physics Workshop in Morocco	Tanger	2017-10-26
22528	Non-classical correlations dynamics of two-qubits X	Y. Khedif	High Energy Physics Workshop in Morocco	Tanger	2017-10-27

ID	Intitulé	Auteurs	Conférence	Ville	Date
	states in non-Markovian environment				
22529	Stable gravitational vacuum stars - an alternative to black holes	A. Errehymy	High Energy Physics Workshop in Morocco	Tanger	2017-10-27
22530	Self-gravitating clouds of generalized Chaplygin and simple Chaplygin Gases	A. Errehymy	Journées des jeunes chercheurs - Académie des Sciences et Techniques	Rabat	2017-07-18
22532	Correlations Dynamics in Open Quantum System of Two-Qubit X States in non-Markovian Environment	Y. Khedif	Journées des jeunes chercheurs - Académie des Sciences et Techniques	Rabat	2017-07-18
22533	Searches about charged Higgs Bosons for $H^{+-} \rightarrow t\bar{b}$ with the ATLAS detector in 13 TeV pp collisions	Z. Chadi	The 3rd Tangier Symposium / Annual Workshop	Tanger	2017-02-18
23596	Radiological impact of NORM-TENORM industries in Morocco: Challenges and Solutions	Ettoufi A and E.H SAYOUTY	La troisième édition des journées doctorales Sciences et Techniques	Errachedia	2017-05-11
23597	Challenges in implementing the regulations in the NORM industry :Phosphate industry and Moroccan regulations case.	Ettoufi A and E.H SAYOUTY	English Day of Fsc	Casablanca	2017-05-29
23848	Search for diboson resonance	Khalil BOUAOUDA	The 3 rd Tangier Symposium	Tanger	2017-02-18

ID	Intitulé	Auteurs	Conférence	Ville	Date
	in the lvqq final state in pp collisions at 13 Tev with the Atlas detector		/Annual Workshop		
28139	La surveillance radiologique environnementale dans les industries NORM: Protocol d'évaluation radiologique dans les milieux de travail	Ettoufi Asmae,Sayouty El Hassan	5 éme édition de l'Ecole Franco-Marocaine de la mesure et de l'instrumentation Nucléaires appliquée à la surété et à la sécurité nucléaires et radiologiques.	Rabat	2018-10-08
28354	Observer-Based Controller for a Class of Linear Discrete-Time Descriptor Systems	Bentahra B.,Soulami J.,El Assoudi A.,El Yaagoubi E.	Edited by MY EL HASSAN CHARAF HANAN EL FAYLALI ABDESSALAM AIT MADI SALMA AZZOUZI 2018 International Conference on Electronics, Control, Optimization and Computer Science (ICECOCS)	Kenitra, Morocco	2018-12-05
28355	Unknown Input Observer Design for a Class of Discrete-time Takagi-Sugeno Implicit Systems	Essabre M. , El Bouatmani E., Soulami J., El Assoudi A., El Yaagoubi E.	ICCAD'18 : IEEE-International Conference on Control, Automation and Diagnosis	Marrakech, Morocco	2018-03-19
28356	Observer-Based Stabilization Design for a Class of Discrete-time Takagi-Sugeno Descriptor Models	Hmaiddouch I., El Bouatmani E.,Soulami J., El Assoudi A,El Yaagoubi E.	ICCAD'18 : IEEE-International Conference on Control, Automation and Diagnosis	Marrakech, Morocco	2018-03-19
28358	Observer based-controller design for a class of linear descriptor system	Bentahra B. , Soulami J., El Assoudi A., El Yaagoubi E.	ICCAD'18 : IEEE-International Conference on Control, Automation and Diagnosis	Marrakech, Morocco	2018-03-19



ID	Intitulé	Auteurs	Conférence	Ville	Date
28359	Dynamic Output Feedback Design for a Class of Discrete Time Descriptor Takagi-Sugeno model	Bentahra B, Jalal Souлами J., El Assoudi A, El Yaagoubi E.	ICCAD'18 : IEEE-International Conference on Control, Automation and Diagnosis	Marrakech, Morocco	2018-03-19

### \*Chapitres d'ouvrage

ID	Intitulé chapitre	Auteurs	Ouvrage	Editeur	Date
4984	Control Volume Finite Element Methods for Flow in Porous Media: Resin Transfer Molding	Samir J., Echaabi J., Hattabi M.	Finite Element Analysis - Applications in Mechanical Engineering	InTech	2012

### \*Prix et distinctions

ID	Intitulé	Auteurs	Événement	Organisme	Date
6332	Prix de l'ISESCO 2012	Hoummada Abdeslam		ISESCO	2012-11-20
22238	Prix de thèse de l'UH2C	El Ouaraini R.*, Sayouty Eh.			2016-06-30

### \*Thèses en cours

ID	Nom Prénom	Sujet	Directeur de thèse	Année de première inscription
6398	Ali ElMoussaouy	Recherche des dibosons au LHC avec le détecteur ATLAS	Benckekroun Driss	2018
3205	Souhail Anfelouss	Caractérisation du faisceau de la station d'imagerie par neutrons auprès du réacteur TRIGA du CENM	Benckekroun Driss	2015
6399	Aziz Echatir	Recherche d'une physique au-delà du modèle standard auprès de l'ILC avec le détecteur ILD	Benckekroun Driss	2018
3206	Ilham El Atmani	Recherche de neutrinos stériles dans l'expérience STEREO à l'ILL	Benckekroun Driss	2015
3207	Zakaria Chadi	Recherche des bosons de Higgs chargés au LHC avec le détecteur ATLAS	Hoummada Abdeslam	2014
3208	Khalil Bouaouda	Recherche des résonances WW au LHC avec le détecteur ATLAS	Benckekroun Driss	2015
3255	Manal Ouazaz	Modélisation, Observation et commande des robots mobilez	E. EL YAAGOUBI	2016
1253	Anouar Ettayk	Analyses et caractérisations de nouveaux verres de phosphates	SAYOUTY EL HASSAN	2014
3256	Khaoula Ait Daraou	estimation simultanée de l'état et des entrées inconnues	A. EL ASSOUDI	2016
1255	Asmae Ettofi	Contribution à la sûreté et la sécurité nucléaire dans les industries NORM	SAYOUTY EL HASSAN	2015
3257	Manal Ouazaz	Modélisation, Observation et commande des robots mobiles	E. EL YAAGOUBI	2016

ID	Nom Prénom	Sujet	Directeur de thèse	Année de première inscription
1256	Ould Mohamed El hafedh Abdellahi	Assurance Qualité en Radiothérapie	SAYOUTY EL HASSAN	2014
3336	Souhail Anafloous	Mise au point d'une station d'imagerie par neutrons auprès du réacteur TRIGA du CNESTEN	Benckekroun Driss	2015
1257	Mustapha Kourachi	Modélisation de la Curiethérapie 2D et 3D	SAYOUTY EL HASSAN	2015
3337	Kaoutar Ouarid	reconfiguration de la commande en présence de panne	A. EL ASSOUDI	2016
1258	Mustapha Khalouki	Modélisation de la Curiethérapie 2D et 3D	SAYOUTY EL HASSAN	2015
3338	Amal El Amaoui	Modélisation des procédés de moulage de composite liquide	M. HATTABI	2016
1259	Youssef Makhkhas	ÉLABORATION ET CARACTERISATION DES VERRES D'OXYDE A BASE DE PHOSPHATE	SAYOUTY EL HASSAN	2010
1829	Ilham HMAIDOUCH	Contribution à la synthèse d'observateurs pour les systèmes implicites continus et discrets type Takagi-Sugeno	E. EL YAAGOUBI	2011
4233	Kawtar Feddi	Modélisation et simulation des bulles dans des procédés de moulage de liquids composites moulding	M. HATTABI	2017
1831	Boutayna BENTAHERA	Synthèse d'observateurs et principe de séparation pour une classe de systèmes implicites type Takagi-Sugeno	E. EL YAAGOUBI	2011
4234	Hajar Imam	Etude des performances du détecteur HGTD pour la mise à niveau du détecteur ATLAS	Benckekroun Driss	2017
1834	Abdellah LOUZIMI	Synthèse d'observateurs pour une classe de systèmes	A. EL ASSOUDI	2011

ID	Nom Prénom	Sujet	Directeur de thèse	Année de première inscription
		implicites à temps continus et discrets type Takagi-Sugeno		
4235	Abdelkrim Soutih	Etude des performances combinées des calorimètres électromagnétique et hadronique analogique du détecteur ILD pour le futur collisionneur ILC	Benckekroun Driss	2017
1835	Karim BOUASSEM	Estimation de l'état et des entrées inconnues pour une classe de systèmes implicites type Takagi-Sugeno	A. EL ASSOUDI	2012
4236	Amina Bouzarmine	Transport des sédiments: Etude des caractéristiques des sédiments cohésifs par les jauges de densité	Benckekroun Driss	2017
4237	Brahim Aitbenchikh	Calibration du calorimètre électromagnétique d' ATLAS et recherche de résonances tau tau	Benckekroun Driss	2017
1928	Mouhcine Azhari	Comportement critique dans des systèmes classiques et quantiques A interactions multi-spins : Approche théorique et expérimentation numérique	Benayad Noureddine	2012
1929	Majid Mouhib	Nanoparticules à spins mixtes : Approche théorique et expérimentation numérique	Benayad Noureddine	2013
3143	Mouhcine Azhari	Comportement critique dans des systèmes classiques et quantiques des interactions multispins : Approche théorique et expérimentation numérique	Benayad Noureddine	2014
3144	Majid Mouhib	Nanoparticules à spins mixtes: Approche théorique et expérimentation numérique	Benayad Noureddine	2016
6397	Soufiane Zerradi	Recherche des résonances à quatre quarks top au LHC avec le détecteur ATLAS	Benckekroun Driss	2018

## \*Thèses soutenues

ID	Nom Prénom	Sujet	Directeur de thèse	Année de première inscription	Date de soutenance
525	Mohammed ESSABRE	Contribution à la synthèse d'observateurs pour les systèmes implicites de type Takagi-Sugeno	E. EL YAAGOUBI	2008	2015-01-10
846	Krim Mustapha	Etude des performances du calorimètre électromagnétique Si-W du concept de détecteur ILD pour l'ILC	Benchekroun Driss	2008	2013-05-30
848	Khoulaki Youssef	Etude des performances du calorimètre électromagnétique Si-W du détecteur ILD et mesure de la masse du boson de Higgs à l'ILC	Benchekroun Driss	2008	2013-12-11
849	Zahar Naima	Sections efficaces thermiques du Sapphire et du MgO : Optimisation des performances d'un filtre de neutrons thermiques pour le diffractomètre de neutrons du réacteur TRIGA du CNESTEN	Benchekroun Driss	2008	2014-07-21
4110	Ilham HMAIDDOUCH	Contribution à l'observation et à la commande des systèmes non linéaires implicites type Takagi-Sugeno	E. EL YAAGOUBI	2012	2017-11-27
1926	Maria Ghliyem	Transitions de phase dans des systèmes d'Ising A spins mélangés avec interactions multiples: Approche théorique et expérimentation	Benayad Noureddine	2009	2014-07-04

ID	Nom Prénom	Sujet	Directeur de thèse	Année de première inscription	Date de soutenance
		numérique			
5370	Mouhcine AZHARI	Du continuum de points de compensation dans le massif à interaction multi-spin aux nanoparticules classiques et quantiques : Conjecture théorique & expérimentation numérique.	Benayad Noureddine	2014	2018-02-07
5371	Majid MOUHIB	Contributions aux propriétés critiques des nanosystèmes à spins mixtes de géométries différentes et des massifs à interactions multi-corps : Approche théorique et expérimentation numérique.	Benayad Noureddine	2014	2018-02-21
5728	BOUTAYNA Bentahra	Contribution à la synthèse d'observateur et au principe de séparation pour les systèmes non linéaires implicites	E. EL YAAGOUBI	2012	2018-03-31
5729	Abdellah Louzimi	Contribution à l'estimation d'état pour les systèmes linéaires implicites de type Takagi Sugeno	J. SOULAMI	2012	2018-04-21
3145	Rachida El Ouaraini	Sensibilité des assimilations d'ensemble globales et régionales aux conditions initiales et aux conditions limites latérales	SAYOUTY EL HASSAN	2012	2016-04-16

<b>ID</b>	<b>Nom Prénom</b>	<b>Sujet</b>	<b>Directeur de thèse</b>	<b>Année de première inscription</b>	<b>Date de soutenance</b>
3204	Yassine El Hafid	Implémentation et Optimisation des Calculs Scientifiques sur une Plateforme Parallèle de Type GPU: Application à la Radio Intelligente et au Trafic Routier	Amri Abdelkader	2010	2015-12-02