

Séminaires

Séminaires donnés par les personnels LPSC

2012

- J. Stark - Precision electroweak measurements at hadron colliders - Université de Göttingen, Allemagne, 6 janvier
- C. Biscarat - L'informatique au service de la physique des hautes énergies : morceaux choisis - LPC, Clermont-Ferrand, 20 janvier
- G. Pignol - Niveaux quantiques du neutron bondissant dans le champ de pesanteur - Laboratoire Collisions Agrégats Réactivité, Toulouse, 20 janvier
- J. Billard - Détection directionnelle de Matière Sombre avec MIMAC - CPPM, Marseille, 23 janvier
- G. Pignol - Probing dark energy models with bouncing ultracold neutrons - ILL, Grenoble, 7 février
- J. Stark - Measurement of the W boson mass at DØ using 5 fb⁻¹ of data, séminaire Wine & Cheese de Fermilab - Fermi National Accelerator Laboratory, Batavia, Illinois, États-Unis, 1^{er} mars
- D. Heuer - Le thorium et le nucléaire du futur - Ormes des Merisiers, Saclay, France, 15 mars
- T. Stavreva - Prompt photon and heavy quark production in p-p, p-A and A-A collisions - Santiago de Compostela, Espagne, 24 mars
- I. Schienbein - Global analysis of nuclear PDF - WWU Münster, Allemagne, 2 avril
- D. Heuer - Que s'est-il passé à Fukushima Daïchi - Laboratoire SIMAP, Grenoble, 3 avril
- I. Schienbein - Global analysis of nuclear PDF - SMU Dallas, États-Unis, 23 avril
- J. Stark - Measurement of the W boson mass at the Tevatron - LPNHE, Paris, 7 juin
- G. Pignol - Probing dark energy models with bouncing ultracold neutrons - Atom-institut, Vienne, Autriche, 22 juin
- A. Wingerter - A minimal model of neutrino flavor - Galileo Galilei Institute, Florence, Italie, 12 juillet
- A. Bidaud - Interdisciplinary study of future reactor technology shift - Culham Center for Fusion Energy, Oxford, Royaume-Uni, 27 juillet
- A. Wingerter - A minimal model of neutrino flavor - Ohio State University, Columbus, OH, États-Unis, 2 août
- D. Heuer - Une autre conception du nucléaire de fission est possible – Les jeudis du CNRS, Marseille, 6 septembre
- C. Combet - Galaxy clusters and gamma-rays from dark matter annihilation or decay - LPNHE, Paris, 13 septembre
- E. Voutier - Deeply virtual scattering off nuclei at Jefferson Lab - University of Perugia, Perugia, Italie, 21 novembre

J. Stark - Zum Ursprung der Masse: die neuesten LHC-Ergebnisse über das Higgs-Boson inklusive der November-Updates von ATLAS und CMS - Université de Tübingen Allemagne, 28 novembre

2013

C. Smith - Baryon and lepton numbers: where do we stand? - LPSC, Grenoble, 24 janvier

P. Sortais - The multi beam sputtering: a new thin film deposition approach - CRETA, Grenoble, 24 janvier

C. Biscarat - Aspects opérationnels dans le centre de calcul mutualisé de l'IN2P3 et dans la grille EGI, Laboratoire d'Informatique de Grenoble, Grenoble, 1^{er} février

K. Louedec - Ultra-high energy cosmic rays: recent results and challenges for the next years - APC, Paris, 13 février

K. Louedec - Ultra-high energy cosmic rays: recent results and challenges for the next years - Subatech, Nantes, 14 février

D. Heuer - Incidence du choix des sels fondus sur la conception et le fonctionnement d'un réacteur à sels fondus - Séminaires « Fluides caloporteurs pour réacteurs à neutrons rapides » 19-20 février, Académie des Sciences, Paris, 20 février

V. Ghetta - Technologie de mise en œuvre du sel comme fluide combustible et caloporteur: pompes, purge, nettoyage du sel, capteurs et maintenance - Séminaires « Fluides caloporteurs pour réacteurs à neutrons rapides » 19-20 février, Académie des Sciences, Paris, 20 février

A. Wingerter - SO(10) meets LHC - University of Liverpool, Angleterre, 27 février

D. Heuer - Le MSFR (Molten Salt Fast Reactor) et les matériaux - Collège de France, Paris, 8 mars

M. Brinet - Calculs de précision en QCD sur réseau - IDRIS, Orsay, 27 mars

K. Louedec - Ultra-high energy cosmic rays: recent results and challenges for the next years - LAPP, Annecy, 29 mars

E. Voutier - The proof-of-principle experiment PEPPo - Institute for Nuclear Research and Nuclear Energy, Sofia, Bulgarie, 10 avril

P. Sortais - The multi beam sputtering: a new thin film deposition approach - Institut Néel, Grenoble, 14 avril

M.-H. Genest - Supersymmetry Searches at the LHC - LPNHE, Paris, 16 mai

E. Voutier - Polarized positrons for physics - Johannes Gutenberg Universität, Mainz, Allemagne, 22 mai

M.-H. Genest - Supersymmetry and dark matter at the LHC - LPTMS, Orsay, 28 mai

M.-H. Genest - Supersymmetry Searches at the LHC - Séminaires de Physique des Hautes Énergies à Montréal, Université de Montréal, Canada, 22 avril

G. Pignol - Probing dark energy models with bouncing ultracold neutrons - CEA, Saclay, 12 juin

P. Sortais - Introduction aux principes de fonctionnement des sources d'ions - Valeo, Bobigny, 27 juin

I. Schienbein - PDFs: strange, charm & bottom - SPhN CEA, Saclay, 28 juin

F. Lyonnet - PyR@TE: Python RGEs at two loop - Ohio State University, Columbus, États-Unis, 18 juillet

C. Combet - Planck: mission overview and 2013 cosmological results - LPNHE, Paris, 12 septembre

T. Thuillier - Les sources d'ions ECR supraconductrices de 3ème génération: technologie, performances et application à Spiral2 - CEA/IRFU, Saclay, 26 septembre

F. Ledroit - Latest news from the LHC on Exotics direct searches - LPNHE, Paris, 26 septembre

E. Voutier - Polarized positrons for physics - Institut de Physique Nucléaire, Orsay, 27 septembre

C. Combet - Planck: mission overview and 2013 cosmological results - CENBG, Bordeaux, 4 octobre

C. Combet - Dark matter indirect detection: status and prospects from dSph galaxies and galaxy clusters - IPNL, Lyon, 29 octobre

E. Merle-Lucotte - The concept of fast spectrum Molten Salt Reactor (MSFR) - French-Swedish seminar on future nuclear systems - KTH, Stockholm, Suède, 3 décembre

Analyse des publications et taux de citations

Les données sont extraites de la base Web of Science (janvier 2014)

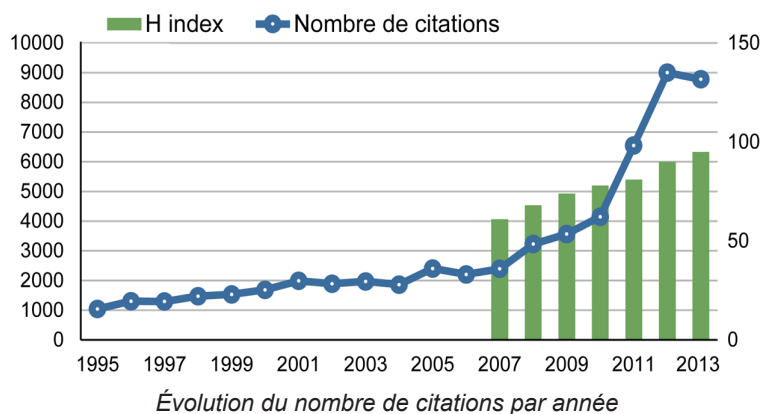
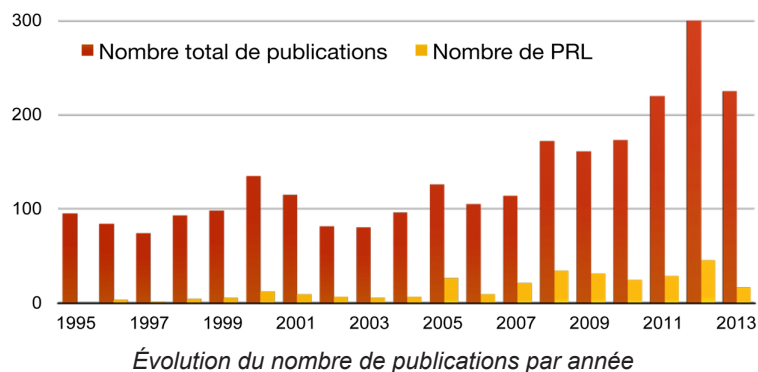
Pour l'année 2013

Nombre de publications du LPSC : 225

Nombre de publications dans Physical Review Letters : 16

Nombre de citations des publications du LPSC : 8777

H-index : 95



La production scientifique du LPSC a augmenté de façon significative ces dernières années avec un taux de citation important comme l'indiquent ces graphiques. Au delà de cette constatation, on peut signaler que si les publications liées à l'effet LHC (avec les expériences ATLAS et ALICE) ainsi qu'à la mission Planck, ont influencé fortement les résultats de ces dernières années, un examen des 18 articles du Top250+ (plus de 250 citations au 1/02/2014) montre la vraie richesse scientifique du LPSC puisqu'ils concernent plusieurs thématiques du laboratoire et sont issus de plus de 10 expériences différentes.

Conférences données à l'invitation du comité d'organisation dans un congrès national ou international

Liste des communications effectuées par les personnels du LPSC ou pour lesquelles, au minimum, l'un des auteurs est affilié au laboratoire.

Le nom de la personne ayant fait la communication est souligné.

Les noms des personnes affiliées au LPSC sont en caractères gras.

Quarks, leptons et symétries fondamentales

ATLAS-ILC-DØ

36th International Conference on High Energy Physics (ICHEP 2012), Melbourne, Australia, July 4-11 2012

- **J. Stark** for the D0 collaboration – Measurement of the W boson mass with the D0 detector and combination of the CDF and D0 results for the W boson mass – *PoS (ICHEP2012) 094*

Calorimetry for the High Energy Frontier (CHEF 2013), Paris, France, 22-25 avril 2013

- **J. Stark** for the D0 collaboration – Precision calibration of the D0 liquid argon calorimeter and algorithms of electrons, photons and jet reconstruction – Proceedings of CHEF 2013 Calorimetry for the High Energy Frontier, Eds. J.-C. Brient et al. *ISBN 9782730216241 69-79*

2013 European Physical Society Conference on High Energy Physics (EPSHEP 2013), Stockholm, Sweden, July 18-24 2013

- **J. Stark** for the ATLAS, CDF, CMS, D0, LHCb Collaborations – Electroweak physics – *Proc. à paraître (PoS)*
- **F. Ledroit-Guillon** for the ATLAS, CDF, CMS, D0 Collaborations – Search for new resonances from BSM at Tevatron and LHC – *Proc. à paraître (PoS)*

Astroparticules et Cosmologie

AMS-CREAM-LSST

Reflections on Space, Time and their Quantum Nature, Golm, Germany, 26th-28th November 2012

- **A. Barrau** – From loop quantum cosmology to the multiverse

What are we learning from the gamma-ray sky?, Minneapolis, Minnesota, USA, October 10-12 2013

- **D. Maurin** – Dark matter indirect detection from dwarf spheroidal galaxies (dSphs) and galaxy clusters

Auger-CODALEMA

12th Pisa Meeting on Advanced Detectors “Frontier Detectors for Frontier Physics”, La Biodola, Isola d’Elba, Italy, May 20-26 2012

- **C. Bérat** on behalf of the Pierre Auger Collaboration – Radio detection of extensive air showers at the Pierre Auger Observatory – *Nucl. Instrum. Meth. A 718 (2013) 471-474*

23rd European Cosmic Ray Symposium (ECRS 2012), Moscow, Russia, July 3-7 2012

- **K. Louedec** for the Pierre Auger Collaboration – Origin of atmospheric aerosols at the Pierre Auger Observatory using backward trajectory of air masses – *J. of Phys. Conf. Series 409 (2013) 012236*

4th Workshop on Air Shower Detection at High Altitude, Napoli, Italy, January 31 - February 1 2013

- **C. Bérat** for the Pierre Auger Collaboration – The Pierre Auger Observatory and its performance

22^{ème} Congrès Général de la Société Française de Physique, Marseille, France, 1-5 juillet 2013

- **K. Louedec** – Les rayons cosmiques d’ultra-haute énergie à l’Observatoire Pierre Auger

Planck-MIMAC

Journées Cryogénie et Supraconductivité, Aussois, France, 6 juin 2012

- **C. Renault** pour la collaboration Planck – Planck et Herschel: deux satellites à la recherche des origines

XLVIIIth Rencontres de Moriond Very High Energy Phenomena in the Universe, La Thuile, Italy, March 9-16 2013

- **D. Santos** – Dark Matter Directional Detection – *Proc. à paraître*

15th International Workshop on Low Temperature Detectors (LTD15), Pasadena, California, USA, June 24-28 2013

- **A. Monfardini** et al. – Latest NIKA results and the NIKA-2 project

European Week of Astronomy and Space Science (EWASS 2013), Turku, Finland, July 8-12 2013

- **J. Macias-Perez** – Measuring the thermal Sunyaev-Zeldovich (tSZ) with Planck

Physique hadronique et Matière nucléaire

ALICE-JLab

13th International Conference on Meson-Nucleon Physics and the Structure of the Nucleon (MENU 2013), Rome, Italy, September 30 - October 4 2013

- **E. Voutier** – Physics perspectives at JLab with a polarized positron beam PEP-Po @ JLab – *Proc. à paraître (EPJ Web of Conferences)*

Physique des réacteurs

3rd International Workshop on Nuclear Data Evaluation for Reactor Applications (WONDER 2012), Aix-en-Provence, France, 25-28 septembre 2012

- **G. Kessedjian** et al. – Development of a gas filled magnet spectrometer coupled with the Lohengrin spectrometer for fission studies – *EPJ Web of Conferences 42 (2013) 01007*

Colloque National des Jeunes Sociétaires SFEN « Les Énergies de Demain », Lyon, France, 11-13 avril 2013

- **D. Heuer** – Les réacteurs du futur

American Nuclear Society 2013 Annual Meeting, Atlanta, Georgia, USA, June 16-20 2013

- **M. Brovchenko** et al. – Molten Salt Fast Reactor transient analyses with the COUPLE code – *Proc. à paraître*

Thorium Energy Conference 2013 (ThEC13), CERN, Geneva, Switzerland, October 27-31 2013

- **E. Merle-Lucotte** – Introduction to the physics of the molten salt fast reactor – *Proc. à paraître (Springer)*

French-Swedish Seminar on Future Nuclear Systems, Stockholm, Sweden, December 3 2013

- **E. Merle-Lucotte** – The concept of fast spectrum Molten Salt Reactor (MSFR)

Théorie et phénoménologie

Cracow Epiphany Conference on Present and Future of B-Physics, Cracow, Poland, January 9-11 2012

- **T. Stavreva** et al. – Heavy quark production in the ACOT scheme beyond NLO – *Acta Phys. Pol. B 43 (2012) 1607-1622*

Workshop “What is u ”, The Galileo Galilei Institute, Florence, Italy, June 11 - July 14 2012

- **A. Wingerter** – A minimal model of neutrino flavor

Workshop on Flavor Symmetries (FLASY12), Dortmund, Germany, June 30 - July 4 2012

- C. Luhn et al. – A minimal model of neutrino flavor – *Proc on Arxiv 1210.1197*

International Workshop on Discovery Physics at the LHC (KRUGER 2012), Kruger Gate, South Africa, December 3-7 2012

- **S. Kraml** – Implications of LHC Higgs results for supersymmetry – *J. of Phys. Conf. Series 455 (2013) 012053*

Pôle accélérateur et sources d'ions

ECOS 2012: Advances and challenges in nuclear physics with high intensity stable beams, Como Lake, Italy, June 18-21 2012

- **T. Lamy** – Status and perspectives of high power ion sources

2nd International Workshop on Technology and Components of Accelerator-driven Systems (TCADS-2), Nantes, France, 21-23 mai 2013

- **M. Baylac** et al. – Operation of the accelerator driving the VENUS-F core for the low power ADS experiments Guinevere and FREYA at SCK-CEN – *Proc. à paraître*

16th International Conference on RF Superconductivity (SRF2013), Paris, France, 23-27 septembre 2013

- **R. Ferdinand** et al. – Status and challenges of Spiral2 SRF linac – *Proc. on Line JACoW (à paraître)*

Les Journées Accélérateurs de la SFP, Roscoff, France, 13-16 octobre 2013

- **T. Thuillier** – Les sources d'ions ECR supraconductrices de 3^{ème} génération: technologie, performances et limitations

- **J. Angot** – Recherche et développement sur le booster de charges PHOENIX au LPSC

- **J.-M. De Conto** – L'opération de l'accélérateur GENEPI-3C dans le programme GUINEVERE

Interdisciplinaire

VIIIth International Workshop on Microwave Discharges: Fundamentals and Applications, Zvenigorod, Russia, September 10-14 2012

- **A. Lacoste** et al. – Coupling modes of microwave plasma sources with localized power absorption – *VIIIth International Workshop on Microwave Discharges: Fundamentals and Applications Proceedings*, Ed. by Yu.A. Lebedev, (2012) ISBN 9785803705703 19-24

16th International Conference on Plasma Physics and Applications (CPPA2013), Bucharest, Romania, June 20-25 2013

- **P. Baele** et al. – Elementary microwave plasma sources with extended operating parameters: concept, design and performance. Examples of applications in the very low and low pressure range – *Proc. à paraître*

Cours donnés à l'invitation du comité d'organisation dans une école nationale ou internationale

Quarks, leptons et symétries fondamentales

ATLAS-ILC-DØ

IN2P3 School of Statistics (SOS2012), Autrans, France, 28 mai -1^{er} juin 2012

- **B. Clément** – Probability and statistics – *EPJ Web of Conferences 55 (2013) 01001*, EDP Sciences 9782759810321

School on High Energy Physics Tools and Computing, Oran, Algérie, May 29 - June 3 2012

- **F. Malek** – La grille de calcul en physique des particules

Hadron Collider School (HASCO 2012), Göttingeng, Germany, July 15- 27 2012

- **B. Clément** – Electroweak physics

International Summer School and Conference on High Energy Physics: Standard Model and Beyond, Belek, Turkiye, August 28 - September 8 2012

- **M.-H. Genest** – Searches for physics beyond the standard model at the Large Hadron Collider

Hadron Collider School (HASCO 2013), Göttingeng, Germany, July 7-19 2013

- **B. Clément** – Hadron collider physics

Pôle accélérateur et sources d'ions

Cern Accelerator School "Ions Sources", Senec, Slovakia, May 29 - June 8 2012

- **T. Thuillier** – Electron Cyclotron Resonance Ion Sources

- **T. Thuillier** – Technological aspects: magnetic system design

- **P. Sortais** – Other ion sources

- **P. Sortais** – Industrial applications

Communication avec actes dans un congrès international

Quarks, leptons et symétries fondamentales

ATLAS-ILC

Hadron Collider Physics Symposium (HCP2012), Kyoto, Japan, November 12-16 2012

- **A. Lleres** on behalf of the ATLAS collaboration – Single top-quark production measurements with ATLAS at the LHC – *EPJ Web of Conference 49 (2013) 17012*

Calorimetry for the High Energy Frontier (CHEF 2013), Paris, France, 22-25 avril 2013

- **Q. Buat** for the ATLAS collaboration – ATLAS detector performances for electrons and photons – *Proceedings of CHEF 2013 Calorimetry for the High Energy Frontier, Eds. J.-C. Brient et al. ISBN 9782730216241 8-15*

DØ

The XLVIIth Rencontres de Moriond ElectroWeak Interactions and Unified Theories 2012, La Thuile, Italy, March 3-10 2012

- **H. Li** on the behalf of the D0 collaboration – Measurement of the W boson mass with 4.3 fb^{-1} of D0 Run II data – *2012 Electroweak Interactions and Unified Theories ARISF (2012) E. Augé et al. ed 75-82*

Astroparticules et Cosmologie

AMS-CREAM-LSST

39th COSPAR, Mysore, India, July 14-22 2012

- **B. Coste** for CREAM III – B, C, N and O fluxes reconstruction with the CREAM-III experiment – *Proc. à paraître (Advances in Space Research)*

13th Marcel Grossmann Meeting (MG13), Stockholm, Sweeden, July 1-7 2012

- **T. Cailleteau** et al. – Observational consequences of loop quantum cosmology – *Proc. à paraître*
- **F. Vidotto** – Spinfoam cosmology – *Proc. à paraître*
- **F. Vidotto** – Spinfoam for cosmologists – *Proc. à paraître*

20th International Conference in General Relativity and Gravitation and 10th Amaldi Conference on Gravitational Waves (GR20 Amaldi 10), Warsaw, Poland, July 7-13 2013

- **L. Linsefors, A. Barrau** – Duration of inflation as a prediction of effective LQC – *Proc. à paraître*

International Conference on Quantum Gravity (LOOPS 2013), Toronto, Canada, July 22-25 2013

- **A. Barrau** – Some possible ways to observe consequences of loop quantum gravity – *Proc. à paraître*
- **L. Linsefors** – Duration of inflation as a prediction of effective LQC – *Proc. à paraître*

Rencontres du Vietnam. Cosmology in the Planck Era, Quy Nhon, Vietnam, July 28 – August 3 2013

- **W. Gillard** – AMS results – *Proc. à paraître*
- **F. Villa** – Calibration techniques for the LSST camera – *Proc. à paraître*

Auger-CODALEMA

XLVIIIth Rencontres de Moriond Very High Energy Phenomena in the Universe, La Thuile, Italy, March 9-16 2013

- **M. Tartare** for the Pierre Auger collaboration – Search for ultra-high energy photons and neutrinos at the Pierre Auger Observatory telescope – *Proc. à paraître*

International Workshop on Atmospheric Monitoring for High-Energy Astroparticle Detectors (AtmoHEAD), Saclay, France, 10-12 juin 2013

- **J. Colombi, K. Louedec** – Monte Carlo simulation of multiple scattered light in the atmosphere – *Proc. à paraître*

Planck-MIMAC

10th Symposium on Sources and Detection of Dark Matter and Dark Energy in the Universe (UCLA Dark Matter 2012), Los Angeles, California, USA, February 22-24 2012

- **F. Mayet** et al. – Directional detection of galactic dark matter – *Springer Proceedings in Physics 148 (2013) 117-121*

SPIE Astronomical Telescope + Instrumentation 2012, Amsterdam, Netherlands, July 1-6 2012

- M. Calvo et al. – The NIKA 2011 run: results and perspectives towards a permanent camera for the Pico Veleta observatory – *Proc. of SPIE 8452 (2012) 845203*

6th Symposium on Large TPCs for Low Energy Rare Event Detection, Paris, France, 17-19 décembre 2012

- **D. Santos** et al. – MIMAC: A micro-tpc matrix for dark matter directional detection – *Journal of Physics: Conference Series 460 (2013) 012007*

XLVIIIth Rencontres de Moriond Very High Energy Phenomena in the Universe, La Thuile, Italy, March 9-16 2013

- **Q. Riffard** et al. – Dark Matter directional detection with MIMAC – *Proc. à paraître*

SnowCLUSTER 2013. Physics of Galaxy Clusters, Snowbird, Utah, USA, March 24-29 2013

- **R. Adam** for the NIKA Collaboration – The first observation of galaxy clusters via the thermal SZ effect with Kinetic Inductance Detectors using the NIKA camera – *Proc. à paraître*

The 24th International Symposium on Space Terahertz Technology (ISSTT 2013), Groningen, The Netherlands, April 8-10 2013

- **A. D'Addabbo** et al. – The NIKA instrument: results and perspectives towards a permanent KID based camera for the Pico Veleta observatory – *Proc. à paraître*

4th Workshop on Directional Detection of Dark Matter (CYGNUS2013), Toyama, Japan, June 10-12 2013

- **F. Mayet** et al. – Measurement of the electron drift velocity for directional Dark Matter detectors – *J. of Phys. Conf. Series 469 (2013) 012006*
- **F. Mayet, J. Billard** – A review on the discovery reach of Dark Matter directional detection masses – *J. of Phys. Conf. Series 469 (2013) 012013*

- **D. Santos** et al. – MIMAC: Micro-tpc MAtrix of Chambers for dark matter directional detection – *J. of Phys. Conf. Series* 469 (2013) 012002

15th International Workshop on Low Temperature Detectors (LTD15), Pasadena, California, USA, June 24-28 2013

- **A. Catalano** et al. – Characterization and physical origin of energetic particles on Planck HFI instrument – *Proc. à paraître (Journal of Low Temperature Physics)*

9th Patras Workshop on Axions, WIMPs and WISPs, Mainz, Germany, June 24-28 2013

- **J. Lamblin** for the MIMAC Collaboration – Directional detection of dark matter with MIMAC – *Proc. à paraître*

Physique hadronique et Matière nucléaire

ALICE-JLab

Quark Matter 2012 International Conference (QM2012), Washington D.C., USA, August 13-18 2012

- **N. Arbor** for the ALICE collaboration – Isolated photon-hadron correlations in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ALICE experiment – *Nuclear Physics A* 904-905 (2013) 697c-700c

XXI International Workshop on Deep-Inelastic Scattering and Related Subjects (DIS 2013), Marseille, France, 22-26 avril 2013

- **E. Voutier** – Helium Compton form factor measurements at CLAS – *Proc. à paraître (PoS)*

4th International Particle Accelerator Conference (IPAC 13), Shanghai, China, May 12-17 2013

- **E. Voutier** – The PEPPo concept for a polarized positron source – *Proc. on Line JACoW IPAC2013 WEOAB203 2088-2090*

1st Large Hadron Collider Physics Conference (LHCP 13), Barcelona, Spain, May 13-18 2013

- **N. Arbor** for the Alice collaboration – Recent photon physics results from the ALICE experiment at LHC – *EPJ Web of Conferences* 60 (2013) 13011

19th International Workshop on High-pT Physics at LHC, Grenoble, France, 24-28 septembre 2013

- **G. Conesa-Balbastre** – Recent photon physics results from the ALICE experiment at LHC – *Proc. à paraître (Journal of Physics Conference Series)*
- **C. Silvestre** – Isolated photons/pi0 and charged hadrons correlations in pp collisions with the ALICE experiment – *Proc. à paraître (Journal of Physics Conference Series)*

Structure Nucléaire

Zakopane Conference on Nuclear Physics, Zakopane, Poland, August 27 – September 2 2012

- **C. Petrone** et al. – Gamma spectroscopy of low-energy isomeric states in neutron-rich nucleo: $^{75}\text{Cu}^*$ – *Acta Physica Polonica B* 44 (2013) 637-641

International Symposium on Exotic Nuclei (EXON2012), Vladivostok, Fédération de Russie, October 1-6 2012

- M. Stanoiu et al. – Study of exotic nuclei through conversion electron spectroscopy – *Exotic Nuclei EXON-2012 Proc. of the International Symposium World Scientific (2013) 45-50*

5th International Workshop on Nuclear Fission and Fission-Product Spectroscopy (FISSION2013), Caen, France, 28-31 mai 2013

- A. Vancraeynest et al. – Prompt γ -ray spectroscopy of neutron-rich ^{124}Cd – *EPJ Web of Conferences 62 (2013) 01004*
- A. Blanc et al. – Spectroscopy of neutron rich nuclei using cold neutron induced fission of actinide targets at the ILL: the EXILL campaign – *EPJ Web of Conferences 62 (2013) 01001*
- T. Konstantinopoulos al. – γ -ray spectroscopy of fission fragments from the cold-neutron ^{235}U induced fission with EXILL – *EPJ Web of Conferences 62 (2013) 01006*
- H. Faust et al. – Principles of a gas filled magnetic spectrometer for fission studies – *EPJ Web of Conferences 62 (2013) 05004*
- C. Amouroux et al. – Measurement of fission yields from the $^{241}\text{Am}(2n_{\text{th}},f)$ reaction at the Lohengrin Spectrometer – *EPJ Web of Conferences 62 (2013) 06002*

International Nuclear Physics Conference (INPC 2013), Firenze, Italy, June 2-7 2013

- A. Blanc et al. – Spectroscopy of neutron rich nuclei using cold neutron induced fission of actinide targets at the ILL: the EXILL campaign – *Proc. à paraître*

Physique des réacteurs

Physics in Reactors Topical Meeting (PHYSOR 2012), Knoxville, Tennessee, USA, April 15-20 2012

- M. Brovchenko et al. – Design-Related Studies for the Preliminary Safety Assessment of the Molten Salt Fast Reactor – *Nuclear Science and Engineering 175 (2013) 329-339, PHYSOR 2012 Advances in Reactor Physics CD-ROM, American Nuclear Society (2012) 12p.*
- T. Ivanova et al. – OECD/NEA expert group on uncertainty analysis for critical safety assessment: results of benchmark on sensitivity calculation (phase III) – *PHYSOR 2012 Advances in Reactor Physics CD-ROM, American Nuclear Society (2012) 19p.*
- W. Uyttenhove et al. – Detector positioning for the initial subcriticality level determination in Accelerator-Driven Systems – *PHYSOR 2012 Advances in Reactor Physics CD-ROM, American Nuclear Society (2012) 13p.*
- P. Sabouri et al. – Proposal for the utilization of the total cross section covariances and its correlations with channel reactions for sensitivity and uncertainty analysis – *PHYSOR 2012 Advances in Reactor Physics CD-ROM, American Nuclear Society (2012) 9p.*

2012 International Congress on the Advances in Nuclear Power Plants (ICAPP'12), Chicago, IL, USA, June 24-28 2012

- H.-E. Thyebault et al. – The GUINEVERE Experiment: first PNS measure-

ments in a lead moderated sub-critical fast core – *2012 International Congress on the Advances in Nuclear Power Plants (ICAPP'12) Proceedings (ANS) ISBN 9780894480911 CD-ROM*

3rd International Workshop on Nuclear Data Evaluation for Reactor Applications (WONDER 2012), Aix-en-Provence, France, 25-28 septembre 2012

- C. Amouroux et al. – Measurement of mass yields from the $^{241}\text{Am}(2n_{\text{th}},f)$ reaction at the Lohengrin spectrometer – *EPJ Web of Conferences 42 (2013) 01006*
- H. Faust et al. – Evaluation of excitation energy and spin in fission fragments using the statistical model, and the FIPPS project – *EPJ Web of Conferences 42 (2013) 06004*

2nd Generation IV International Forum (GIF) Symposium, San Diego, California, USA, November 14-15 2012

- H. Boussier et al. – The molten salt reactor (MSR) in Generation IV: overview and perspectives – *GIF Symposium Proceedings, San Diego, California, USA, November 14-15 2012 – 2012 Annual Report OECD (2013) NEA n° 7141 95-107*

European Nuclear Conference (ENC 2012), Manchester, United Kingdom, December 9-12 2012

E. Merle-Lucotte et al. – Preliminary design assessment of the molten salt fast reactor – *ENC 2012 Transactions Advanced Reactors ENS (2012) On-line ISBN 978-92-950641410 17-26*

International Conference on Nuclear Data for Science and Technology (ND2013), New York, USA, March 4-8 2013

- F. Ferragut et al. – Propagation of nuclear data uncertainties in deterministic calculations: application of generalized perturbation theory and the total Monte Carlo method to a PWR burnup pin-cell – *Proc. à paraître (Nuclear Data Sheets)*
- I. Companis et al. – Measurement of the $^{233}\text{U}_{(n,g)}$ and $^{233}\text{U}_{(n,f)}$ cross sections in the resonance region – *Proc. à paraître (Nuclear Data Sheets)*
- H. Faust et al. – Verification of the thermodynamic model in nuclear fission: the new spectrometer FIPPS – *Proc. à paraître (Nuclear Data Sheets)*
- O. Serot et al. – Fission activities around the Lohengrin mass spectrometer – *Proc. à paraître (Nuclear Data Sheets)*
- **F. Martin** et al. – Measurements of the mass and isotopic yields of the $^{233}\text{U}(n_{\text{th}},f)$ reaction at the Lohengrin spectrometer – *Proc. à paraître (Nuclear Data Sheets)*

International Conference on Fast Reactors and Related Fuel Cycles: Safe Technologies and Sustainable Scenarios (FR13), Paris, France, 4-7 mars 2013

- **E. Merle-Lucotte** et al. – Recommendations for a demonstrator of Molten Salt Fast Reactor – *Proc. à paraître*

2nd International Workshop on Technology and Components of Accelerator-driven Systems (TCADS-2), Nantes, France, 21-23 mai 2013

- A. Kochetkov et al. – Current progress and future plans of the FREYA Project – *Proc. à paraître*
- N. Marie et al. – Reactivity monitoring using the area method for the subcritical VENUS-F core within the framework of the FREYA Project – *Proc. à paraître*

- **S. Chabod** et al. – Analysis of prompt decay experiments for ADS reactivity monitoring at VENUS-F GUINEVERE facility – *Proc. à paraître*

International Conference on Advancements in Nuclear Instrumentation Measurement Methods and their Applications (ANIMMA 2013), Marseille, France, 23-27 juin 2013

- A. Kochetkov et al. – An alternative source jerk method implementation for the subcriticality estimation of the Venus-F subcritical core in the Freya project upgrade – *Proc. à paraître (IEEE)*

Joint International Conference on Supercomputing in Nuclear Applications + Monte Carlo (SNA & MC 2013), Paris, France, 27-31 octobre 2013

- **A. Nuttin** et al. – Facing challenges for the Monte Carlo analysis of full PWR cores : towards optimal detail level for neutronics and proper diffusion constants for kinetics – *Proc. à paraître*

- **A. Laureau** et al. – Coupled neutronics and thermal-hydraulics numerical simulations of a Molten Salt Fast Reactor (MSFR) – *Proc. à paraître*

Joint International Conference on Supercomputing in Nuclear Applications + Monte Carlo (SNA & MC 2013) Workshop “Monte Carlo Computational Performance Benchmark”, Paris, France, 27-31 octobre 2013

- **N. Capellan** – Validation methodologies for detailed local power calculation using external combination of tallies – *Proc. à paraître*

ANS National Meeting 2013 Winter Meeting and Technology Expo, Washington, Columbia, USA, November 10-14 2013

- **P.R. Rubiolo** et al. – Core thermal-hydraulics analyses of the Molten Salt Fast Reactor (MSFR) in nominal conditions – *Proc. à paraître*

Théorie et phénoménologie

3rd Linear Collider Forum, DESY, Hamburg, Germany, 7-9 January 2012

- **S. Kraml** – Implications of the 125 GeV Higgs for Supersymmetry – *Helmholtz Alliance Linear Collider Forum Proc. of the Workshops Hamburg, Munich, Hamburg 2010-2012 Germany DESY 12-123H DESY-PROC-2013-02 ISBN 978-3-935702-73-7 366-375*

The XLVIIth Rencontres de Moriond ElectroWeak Interactions and Unified Theories 2012, La Thuile, Italy, March 3-10 2012

- **S. Kulkarni** – Effective couplings approach to neutralino dark matter relic density – *2012 Electroweak Interactions and Unified Theories ARISF (2012) E. Augé et al. ed 483-486*

- **S. Kraml** – SUSY status after one year of LHC – *2012 Electroweak Interactions and Unified Theories ARISF (2012) E. Augé et al. ed 139-146*

The XLVIIth Rencontres de Moriond QCD and High Energy Interactions 2012, La Thuile, Italy, March 10-17 2012

- **T. Stavreva** – Heavy quark structure functions in the ACOT scheme – *XLVIIth Rencontres de Moriond (2012) ARISF 281-284*

XX International Workshop on Deep-Inelastic Scattering and Related Subjects (DIS 2012), Bonn, Germany, March 26-30 2012

- K. Kovarik, **T. Stavreva** – Constraining the intrinsic heavy quark PDF via direct photon production in association with a heavy quark jet – *DESY-PROC2012-02* 815-818
 - **T. Stavreva** et al. – Heavy quark production in the ACOT scheme beyond NLO – *DESY-PROC2012-02* 243-246
- 16th International Conference in Quantum Chromodynamics (QCD12), Montpellier, France, 2-6 juillet 2012
- B. Blossier et al. – Lattice measurement of α_s with a realistic charm quark – *Nuclear Physics B – Proc. Suppl.* 234 (2013) 217-220
- 36th International Conference on High Energy Physics (ICHEP 2012), Melbourne, Australia, July 4-11 2012
- J.P. Lansberg et al. – Prospectives for A Fixed-Target Experiment at the LHC: AFTER@LHC – *PoS (ICHEP2012)* 547
- International Conference on Heavy Ion Collisions in the LHC Era, Quy Nhon, Vietnam, July 16-20 2012
- F. Arleo et al. – Probing nuclear parton densities (and more) from $\gamma + Q$ production in p–A and A–A collisions – *J. of Phys. Conf. Series* 422 (2013) 012011
- Quark Matter 2012 International Conference (QM2012), Washington D.C., USA, August 13-18 2012
- A. Rakotozafindrabe et al. – Ultra-relativistic heavy-ion physics with AFTER@LHC – *Nuclear Physics A* 904-905 (2013) 957c-960c
- 20th International IUPAP Conference on Few-Body Problems in Physics (FB20), Fukuoka, Japan, August 20-25 2012
- J. Vijande et al. – Stability of multiquarks in an improved flip-flop model of confinement – *Few-Body Systems* 54 (2013) 1015-1018
- International Workshop on Diffraction in High-Energy Physics (DIFFRACTION 2012), Puerto del Carmen, Lanzarote, Spain, September 10-15 2012
- C. Lorcé et al. – Spin and diffractive physics with A Fixed-Target Experiment at the LHC (AFTER@LHC) – *AIP Conf. Proc.* 1523 (2013) 149-152
- 12th Hellenic School and Workshop on Elementary Particle Physics and Gravity. TR33 - Summer Institute: Particles and the Universe, Corfu, Greece, September 16-22 2012
- J. Harz et al. – Impact of SUSY-QCD corrections on neutralino-stop co-annihilation and the neutralino relic density – *PoS (Corfu2012)* 075
- Xth Quark Confinement and the Hadron Spectrum Conference, Munich, Germany, October 8-12 2012
- K. Petrov et al. – Testing OPE for ghosts, gluons and α_s – *PoS (Confinement X)* 043
- Hadron Collider Physics Symposium (HCP2012), Kyoto, Japan, November 12-16 2012
- **Z. Pan** – NNLO mixed QCD-EW corrections to the Drell-Yan production of Z and W bosons – *Proc. à paraître (EPJ web of conference)*

20th International Symposium on Spin Physics (SPIN2012), Dubna, Russia, September 17-22 2012

- A. Rakotozafindrabe et al. – Spin physics at A Fixed-Target Experiment at the LHC (AFTER@LHC) – *Phys. Part. Nuclei 45 (2014) 336-337*

XLVIIIth Rencontres de Moriond QCD and High Energy Interactions, La Thuile, Italy, March 9-16 2013

- B. Dumont – Higgs couplings after Moriond – *Proc. à paraître*

XXI International Workshop on Deep-Inelastic Scattering and Related Subjects (DIS 2013), Marseille, France, 22-26 avril 2013

- T. Stavreva – Probing the intrinsic heavy quark content of the nucleon through direct photon & heavy quark production – *Proc. à paraître (PoS)*
- K. Kovarik et al. – CTEQ nuclear parton distribution functions – *Proc. à paraître (PoS)*
- A. Rakotozafindrabe et al. – Studying the high x frontier with A Fixed-Target Experiment at the LHC – *Proc. à paraître (PoS)*

31st International Symposium on Lattice Field Theory (LATTICE 2013), Mainz, Germany, July 29 - August 3 2013

- A. Abdel-Rehim et al. – A first look at maximally twisted mass lattice QCD calculations at the *physical* point – *Proc. à paraître (PoS)*

19th International Workshop on High-pT Physics at LHC, Grenoble, France, 24-28 septembre 2013

- I. Schienbein – The production of a photon in association with a heavy quark jet in pA and AA collisions – *Proc. à paraître (Journal of Physics Conference Series)*

Pôle accélérateurs et sources d'ions

20th International Workshop on Electron Cyclotron Resonance Ion Sources (ECRIS-2012), Sydney, Australia, September 25-28 2012

- M. Marie-Jeanne et al. – Status of the SEISM experiment – *Proc. à paraître (JACoW)*
- T. Thuillier et al. – Recent results of PHOENIX V2 and new prospects with PHOENIX V3 – *Proc. à paraître (JACoW)*
- J. Angot et al. – LPSC PHOENIX ECR charge breeder beam optics and efficiencies – *Proc. à paraître (JACoW)*
- P. Jardin et al. – ECRISs at GANIL today and tomorrow – *Proc. à paraître (JACoW)*

2nd International Workshop on Technology and Components of Accelerator-driven Systems (TCADS-2), Nantes, France, 21-23 mai 2013

- R. Salemme et al. – The R&D@UCL program in support of the MYRRHA linear accelerator – *Proc. à paraître*

11th International Topical Meeting on Nuclear Applications of Accelerators (AccApp2013), Bruges, Belgium, August 5-8 2013

- E. Froidefond et al. – Operation of the GENEPI-3C accelerator for the ADS mock-up GUINEVERE – *Proc. à paraître*

15th International Conference on Ion Sources (ICIS'13), Chiba, Japan, September 9-13 2013

- **P. Sortais** – Frequency scaling with miniature COMIC ion sources – *Proc. à paraître (Review of Scientific Instruments)*
- **L. Maunoury et al.** – Future carbon beams at SPIRAL1 facility: Which method is the most efficient? – *Rev. Sci. Instrum.* 85 (2014) 02A504
- **C. Lyneis et al.** – A mode converter to generate a Gaussian-like mode for injection into the VENUS electron cyclotron resonance ion source – *Rev. Sci. Instrum.* 85 (2014) 02A932
- **C. Barué et al.** – Metallic Beam Developments for the SPIRAL 2 Project – *Rev. Sci. Instrum.* 85 (2014) 02A946

Thorium Energy Conference 2013 (ThEC13), CERN, Geneva, Switzerland, October 27-31 2013

- **F. Bouly, J.-L. Biarrotte** – Euratom MAX project. The MYRRHA Accelerator eXperiment R&D programme – *Proc. à paraître (Springer)*

Interdisciplinaire

Imagerie médicale – Services Techniques – Développements technologiques

Computing in High Energy and Nuclear Physics (CHEP2012), New-York, USA, May 21-25 2012

- **D. Malon et al.** – A programmatic view of metadata, metadata services, and metadata flow in ATLAS – *J. of Phys. Conf. Series* 396 (2012) 052052

SPIE Astronomical Telescope + Instrumentation 2012, Amsterdam, Netherlands, July 1-6 2012

- **O. Bourrion et al.** – Electronics and data acquisition for kilopixels kinetic inductance camera – *Proc. of SPIE* 8452 (2012) 845200

Topical Workshop on Electronics for Particle physics (TWEPP 2012), Oxford, United Kingdom, September 17-21 2012

- **O. Bourrion et al.** – The ALICE EMCal L1 trigger first year of operation experience – *JINST* 8 (2013) C01013

IEEE International Conference on Electronics, Circuits, and Systems (ICECS 2012), Seville, Espagne, December 9-12 2012

- **A. Salazar et al.** – CMOS active column sensor for biodetection applications based on surface plasmon resonance – *Analog Integrated Circuits and Signal Processing* 77 (2013) 365-372 *selected paper (ICECS 2012)*, *Electronics, Circuits and Systems (ICECS)*, 2012 19th IEEE International Conference on (IEEE) 821-824

International Workshop on New Photon-detectors (PhotoDet 2012), Orsay, France, 13-15 juin 2012

- **C.L. Naumann et al.** – NECTAR: New Electronics for the Cherenkov Telescope Array – *PoS (PhotoDet2012)* 030

SPIE Photonics West 2013 OPTO, San Francisco, California, USA, February 2-7 2013

- **A. Salazar et al.** – Electromagnetic modeling of surface plasmon resonance with

Kretschmann configuration for biosensing applications in a CMOS-compatible interface – *Proc. SPIE 8619 (2013) 86190V*

Topical Workshop on Electronics for Particle Physics (TWEPP-13), Perugia, Italy, September 23-27 2013

- **O. Bourrion** et al. – High speed readout electronics development for frequency-multiplexed kinetic inductance detector design optimization – *JINST 8 (2013) C12006*

20th International Conference on Computing in High Energy and Nuclear Physics (CHEP2013), Amsterdam, Netherlands, October 14-18 2013

- **J. Fulachier** et al. on behalf of the ATLAS Collaboration – Looking back on 10 years of the ATLAS Metadata Interface: reflections on architecture, code design and development methods – *Proc. à paraître (Journal of Physics: Conference Series)*
- **E. Gallas** et al. on behalf of the ATLAS Collaboration – Utility of collecting meta-data to manage a large scale conditions database in ATLAS methods – *Proc. à paraître (Journal of Physics: Conference Series)*

Communication avec actes dans un congrès national

Quarks, leptons et symétries fondamentales

UCN

Journées de Rencontre Jeunes Chercheurs 2013, Barbaste, France, 1-7 décembre 2013

- **M. Guigue** et al. – À la recherche de particules légères avec l'Helium 3 polarisé – *Proc. à paraître*

Astroparticules et Cosmologie

AMS-CREAM-LSST

Journées Jeunes Chercheurs 2012 (JJC 2012), Munster, France, 2-8 décembre 2012

- **F. Villa** – Introduction au contexte cosmologique – *Journées Jeunes Chercheurs 2012 (2012) 184-186*

Auger-CODALEMA

Journées Prospective IN2P3-IRFU, Giens, France, 2-5 avril 2012

- **F. Montanet** et al. – Neutrinos et rayons cosmiques chargés

Planck-MIMAC

Semaine de l'Astrophysique Française (SF2A 2013), Montpellier, France, 4-7 juin 2013

- **B. Comis** et al. – Detection of the TSZ effect with the NIKA camera – *Proc. on Line (Proceedings SF2A 2013 - Scientific highlights, ADS 2013sf2a.conf..331C) 331-335*

Journées de Rencontre Jeunes Chercheurs 2013, Barbaste, France, 1-7 décembre 2013

- **Q. Riffard** – Dark Matter directional detection with MIMAC – *Proc. à paraître*
- **R. Adam** – First observation of the thermal Sunyaev-Zel'dovich effect with Ki-

netic Inductance Detectors – *Proc. à paraître*

Interdisciplinaire

Imagerie médicale – Services Techniques – Développements technologiques

10^{èmes} Journées Réseaux, Montpellier, France, 10-13 décembre 2013

- **B. Bouterin** – Refroidir sans gaspiller – *Proc. online à paraître*

Communications orales sans actes dans un congrès international ou national

Quarks, leptons et symétries fondamentales

ATLAS-ILC

5th France China Particle Physics Laboratory (FCPPL) Workshop, Orsay, France, 21-24 mars 2012

- **B. Clément** et al. – ATLAS single top studies

4th Fermion Generation and Single-Top Production 2012, Leinsweiler, Germany, March 26-28 2012

- **X. Sun** on behalf of the ATLAS Collaboration – Search for single top FCNC @ ATLAS

Dark Forces at Accelerators (DARK2012), Rome, Italy, October 16-19 2012

- **J. Stark** – Search for invisible particle production in monojet and monophoton events with missing transverse momentum with the ATLAS detector

8^{ème} Journées Informatiques de l'IN2P3-IRFU, La Londe Les Maures, France, 22-25 octobre 2012

- **F. Malek** – Le off-line vu du physicien

Rencontres de Physique des Particules 2013 (RPP2013), Grenoble, France, 16-18 janvier 2013

- **M.-H. Genest** – SUSY searches at the LHC (review)

Workshop top LHC-France 2013, Lyon, France, 21-22 mars 2013

- **X. Sun** pour les collaborations ATLAS et CMS – Indirect searches in single top from ATLAS and CMS

Rencontres Françaises sur la Physique des Hautes Energies au LHC (LHC France 2013), Annecy, France, 2-6 avril 2013

- **M.-H. Genest** – Overview of super-Symmetry searches at LHC
- **X. Sun** – Top/W polarization in single Top production, ATLAS+CMS
- **Q. Buat** – NP search in 2 photons final states in ATLAS
- **B. Dechenaux** – Search for $t\bar{t}\bar{t}\bar{t}$ resonances in ATLAS

Grenoble École de Physique (GePhy 2013), Grenoble, France, 8-9 juillet 2013

- **J. Collot** – Champ et boson de Higgs : la masse sans masse

Higgs Hunting 2013, Orsay, France, 25-27 juillet 2013

- **A. Madsen** pour la collaboration ATLAS – Charged Higgs searches in ATLAS

LQC

21st International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY 2013), Trieste, Italy, August 26-31 2013

- **M.-H. Genest** – Searches for single object and missing transverse energy with the ATLAS detector

Workshop Science et Philosophie : regards croisés sur les simulations numériques, S^t Martin d'Hères, France, 28 novembre, 10-11 décembre 2013

- **S. Crépe-Renaudin** – Monte-Carlo simulations in particle physics

UCN

Journées Prospective IN2P3-IRFU, Giens, France, 2-5 avril 2012

- **D. Rebreyend** – nEDM

DØ

Standard Model @ LHC 2012, Copenhagen, Denmark, April 10-13 2012

- **H. Li** – Recent electroweak results from the Tevatron (including W mass)

Astroparticules et Cosmologie

AMS-CREAM-LSST

Nuclear Physics for Galactic Cosmic Rays in the AMS-02 Era, LPSC, Grenoble, France, 3-4 décembre 2012

- **D. Maurin** – Nuclear fragmentation and galactic cosmic rays phenomenology
- **L. Derome** – CREAM balloon: fragmentation in the residual atmosphere
- **D. Maurin** – Neutron monitor data to monitor galactic cosmic rays data

International School of Physics "Enrico Fermi". New Horizons for Observational Cosmology, Varenna, Italy, June 30 – July 6 2013

- **A. Choyer** – Photometric reconstruction with LSST

Grenoble École de Physique (GePhy 2013), Grenoble, France, 8-9 juillet 2013

- **A. Barrau** – Les fondements de la relativité
- **A. Barrau** – Conséquences de la relativité restreinte et rudiments de relativité générale

45^{ème} École de GIF Le Rayonnement Cosmique de Haute Énergie: Messenger du Cosmos, Annecy-le-Vieux, France, 16-20 septembre 2013

- **L. Derome** – Principes et méthodes de detection: particules chargées dans l'espace

Auger-CODALEMA

Nuclear Physics for Galactic Cosmic Rays in the AMS-02 Era, LPSC, Grenoble, France, 3-4 décembre 2012

- **K. Louedec** – Galactic cosmic rays monitoring at Auger site

Planck-MIMAC

7th Astronomical Data Analysis Conference (ADA-VII), Cargèse, France, 14-18 mai 2012

- **L. Perotto** et al. – Reconstructing the CMB lensing on Planck - like temperature maps

47th ESLAB Symposium The Universe as seen by Planck, Noordwijk, The Netherlands, April 2-5 2013

- **B. Comis** – Detection of diffuse SZ with Planck: implications for cosmology and galaxy cluster physics
- **C. Combet** – Galactic CO emission as seen by Planck
- **L. Perotto** – Planck CMB lensing reconstruction on foregrounds cleaned maps
- **J. Macias-Perez** – All-sky Planck Compton parameter map and cosmological interpretation

9th International Conference Identification of Dark Matter (IDM2012), Chicago, USA, July 23-27 2012

- **D. Santos** – Directional detection of dark matter with MIMAC

International School of Physics “Enrico Fermi”. New Horizons for Observational Cosmology, Varenna, Italy, June 30 - July 6 2013

- **R. Adam** – First observation of the thermal Sunyaev-Zel'Dovich effect with Kinetic Inductance Detectors

Physique hadronique et Matière nucléaire

ALICE-JLab

7th International Workshop on High- p_T Physics at LHC, Frankfurt, Germany, March 26-29 2012

- **N. Arbor** – Photon physics with the ALICE detector at LHC

American Physical Society April Meeting 2012, Atlanta, Georgia, USA, March 31 - April 3 2012

- **E. Voutier** – Deeply virtual Compton scattering off helium
- **E. Fanchini** – Polarized electrons for polarized positrons

XIV Workshop on Nuclear Physics (XIV WONP) - VII International Symposium on Nuclear and Related Techniques (VIII NURT), Havana, Cuba, February 5-8 2013

- **G. Cones Balbastre** for the Alice Collaboration – Isolated photons and correlation with hadrons measurement in pp collisions with ALICE

Rencontres Françaises sur la physique des hautes énergies au LHC (LHC France 2013), Annecy, France, 2-6 avril 2013

- **N. Arbor** – Toward jet tomography of QGP in ALICE

Physique des réacteurs

2012 French-Taiwanese Workshop on Energy Management, Tainan, Taiwan, May 16-19 2012

- **A. Bidaud** – The futures of nuclear electricity

NEA Nuclear Data Week JEFF Project (Joint Evaluated Fission and Fusion File), Issy-les-Moulineaux, France, 23-27 avril 2012

- **A. Bidaud** – Proposal for the utilization of the total cross section covariances and its correlations with channel reactions for sensitivity and uncertainty analysis Lohengrin

WPRS Workshop on Uncertainty Analysis in Modelling, Karlsruhe, Germany, May 10 2012

- **P. Sabouri** et al. – General perturbation theory with DRAGON

All Party Parliament Group, Thorium Energy, London, United Kingdom, July 10 2012

- **M. Brovchenko** – Molten Salt Fast Reactor concept operating in thorium fuel cycle

Rencontres de Physique de l'Infiniment Grand à l'Infiniment Petit, Orsay, France, 16-27 juillet 2012

- **A. Bidaud** – Maîtriser l'énergie de l'atome

Seventh Workshop OECD Benchmark for Uncertainty Analysis in Best-Estimate Modelling (UAM) for Design, Operation and Safety Analysis of LWRs – (UAM-7), Issy-les-Moulineaux, France, 10-12 avril 2013

- **P. Sabouri** et al. – Nuclear Data Uncertainty Propagation with DRAGON: Application of Generalized Perturbation Theory Methods using the Collision Probability Technique

Rencontres de Physique de l'Infiniment Grand à l'Infiniment Petit 2013, Orsay, France, 15-26 juillet 2013

- **A. Bidaud** – Maîtriser l'énergie de l'atome

JEFF-NEEDS Workshop on Nuclear Data Measurements, NEA Nuclear Data Week, Issy-les-Moulineaux, France, 25-29 novembre 2013

- **A. Chebboubi** et al. – Development of a gas filled magnet spectrometer at the ILL for fission studies

Théorie et phénoménologie

LHCPhenoNet Winter School 2012, Ascona, Switzerland, January 22-29 2012

- **F. Lyonnet** et al. – New resonances at the Pierre Auger observatory

3rd Linear Collider Forum, DESY, Hamburg, Germany, January 7-9 2012

- H. Dreiner et al. – Probing slepton CP phases at LHC and ILC

SPRING 2012 AFTER Meeting: A Fixed-Target ExpeRiment using the LHC beams, Grenoble, France, 10-11 mai 2012

- **I. Schienbein** – nPDF extraction with hadron beams

Rencontres de Physique des Particules (RPP2012), Montpellier, France, 14-16 mai 2012

- **T. Jezo** et al. – LHC phenomenology of general $SU(2) \times SU(2) \times U(1)$ models

- **Q. Lehoucq'h** et al. – Neutralino relic density with next to leading order (co)annihilation cross section

- **B. Dumont** et al. – Mixed sneutrino dark matter in light of recent experimental results

- **A. Wingerter** et al. – A minimal model of neutrino flavor

Journées de Physique Théorique, Grenoble, France, 24-25 mai 2012

- **T. Stavreva** – Parton distribution functions

- **A. Wingerter** – Physics beyond the Standard Model

- **S. Kulkarni** – The life and times of Supersymmetry

20th International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY 2012), Beijing, China, August 13-18 2012

- **S. Kulkarni** – Natural SUSY-GUTs in the light of recent LHC results

International School Cargese 2012: Across the TeV Frontier with the LHC, Cargese, France, 20 août – 1^{er} septembre 2012

- **B. Dumont** – Mixed sneutrino dark matter in light of recent experimental results
- **F. Lyonnet, T. Jezo** – New resonances at the Pierre Auger Observatory

Rencontres de Physique des Particules 2013 (RPP2013), Grenoble, France, 16-18 janvier 2013

- **Q. Le'Boulch** et al. – Phenomenology of neutralino-stop coannihilation at one loop
- **T. Stavreva** – Probing heavy quark energy loss through photon + Q production
- **B. Dumont** et al. – Higgs couplings at the end of 2012
- **A. Wingerter** – Physics beyond the standard model (review)

Workshop “Likelihoods for the LHC Searches”, Geneva, Switzerland, January 21-23 2013

- **B. Dumont** et al. – Interpreting the LHC Higgs results

Workshop Physics at A Fixed Target Experiment (AFTER) using the LHC beams, Villazzano, Italy, February 3-13 2013

- **I. Schienbein** – Working group summary: quarkonia, heavy-flavour...
- **T. Stavreva** – Photon + heavy-quark production in pp collisions

6th workshop of the France China Particle Physics Laboratory (FCPPL), Nanjing, China, March 27-30 2013

- **Z. Pan** – Mixed NNLO QCD-EW radiative corrections to Drell-Yan production of a vector bosons

HEFTI Higgs Workshop “The LHC Higgs Signal: Characterization, Interpretation and BSM Model Implications”, Davis, California, USA, April 22-26 2013

- **S. Kraml** – (Nearly) degenerate Higgs bosons. Theory motivations and questions
- **S. Kraml** – SUSY after the Higgs. Implications of LHC Higgs results for supersymmetry
- **B. Dumont** – Higgs coupling after Moriond

16th International Conference from the Planck Scale to the Electroweak Scale (Planck13), Bonn, Germany, May 20-24 2013

- **B. Dumont** – Higgs couplings after Moriond 2013
- **F. Lyonnet** – Automatized generation of non-SUSY RGEs for a general gauge field theory
- **S. Kraml** – SUSY after the Higgs
- **S. Kulkarni** – Using top polarization for improving third generation squark searches
- **Q. Le Boulc'h** – SUSY-QCD corrections to neutralino-stop co-annihilation
- **A. Wingerter** – SO(10) meets LHC

19th International Symposium on Particles, Strings and Cosmolgy (PASCOS 2013), Taipei, Taiwan, November 20-26 2013

- **S. Kulkarni** – Introducing SModelS: a tool for testing LHC results using simplified models

Pôle accélérateurs et sources d'ions

39th International Conference on Metallurgical Coatings and Thin Films (ICMCTF), San Diego, California, USA, April 23-27 2012

- **P. Sortais, J. Médard** – The multi beam sputtering: a new thin film deposition approach

24th Joint Russian-German Meeting on ECRH and Gyrotrons, Nizhny Novgorod, Russia, June 11-15 2012

- **M.I. Bakulin et al.** – 60 GHz pulsed gyrotron complex for plasma creation in ECR multicharged ion source of new generation

Journées Prospective IN2P3-IRFU, Giens, France, 2-5 avril 2012

- **M. Baylac** – Prospectives accélérateurs pour les applications en santé et énergie

Interdisciplinaire

DAMe

52^{ème} Journées Scientifiques- Société Française de Physique Médicale, Nice, France, 5-7 juin 2013

- **I. Fonteille et al.** – Développement d'un détecteur transparent 2D (TraDeRa: Transparent Detector for Radiotherapy) pour le contrôle en ligne des faisceaux d'IMRT : étude d'optimisation par simulation Monte-Carlo

3rd Conference on Medical Physics and Biomedical Engineering, Skopje, Republic of Macedonia, October 18-19 2013

- **Y. Arnoud** – PET developments and prospects, image registration

Plasmas-Matériaux-Nanostructures

Journées du Réseau des Plasmas Froids, La Rochelle, France, 14-17 octobre 2013

- **A. Bès** – Optimisation d'un procédé d'élaboration de matériaux en couches minces pour le stockage d'hydrogène par plasma pulsé

Services Techniques – développements technologiques

Journées Prospective IN2P3-IRFU, Giens, France, 2-5 avril 2012

- **C. Biscarat** pour le groupe de travail « Calcul » – Calcul pour la physique des particules

Rencontres de Physique de l'Infiniment Grand à l'Infiniment Petit, Orsay, France, 16-27 juillet 2012

- **C. Biscarat** – Enregistrer et analyser pour découvrir

HEPiX Fall 2012 Workshop – The High Energy Physics Unix Information Exchange, Beijing, China, October 15-19 2012

- **T. Descombes** – ZNeTS: log your network traffic!

Journée Instrumentation, Paris, France, 27 novembre 2012

- **P. Stassi** – Radio détection

8^{ème} Journées Informatiques de l'IN2P3-IRFU, La Londe Les Maures, France, 22-25 octobre 2012

- **C. Biscarat** – Synergie entre le mésocentre grenoblois CIMENT et le LPSC
- **F. Lambert** – Exemples d'outils pour faciliter les développements d'applications LPSC

Rencontres de Physique de l'Infiniment Grand à l'Infiniment Petit 2013, Orsay, France, 15-26 juillet 2013

- **C. Biscarat** – Enregistrer et analyser pour découvrir

Rencontres Scientifiques des Utilisateurs de Calcul Intensif, de Cloud Et de Stockage (Journées SUCCES 2013), Paris, France, 13-14 novembre 2013

- D. Benaben et al. – Mise en place d'un gestionnaire de données léger, pluridisciplinaire et national pour les données scientifiques

Journée Instrumentation, Paris, France, 25 novembre 2013

- **P. Stassi** – Radio détection

Communications par affiche dans un congrès international ou national

Quarks, leptons et symétries fondamentales

ATLAS-ILC

Rencontres Françaises sur la physique des hautes énergies au LHC (LHC France 2013), Annecy, France, 2-6 avril 2013

- **C. Monini** – Search for single-top production in the s-channel at $\sqrt{s} = 7$ TeV with the ATLAS detector
- **J. Brown** – Qualité des données du point de vue du calorimètre à argon liquide d'ATLAS

1st Large Hadron Collider Physics Conference (LHCP 13), Barcelona, Spain, May 13-18 2013

- **B. Dechenaux** – A search for $t\bar{t}$ resonance in the lepton plus jets channel with ATLAS using 14 fb^{-1} of proton-proton collisions at $\sqrt{s} = 8$ TeV – *EPJ Web of Conferences 60 (2013) 20044*

2013 European Physical Society Conference on High Energy Physics (EPSHEP 2013), Stockholm, Sweden, July 18-24 2013

- J.M. Brown et al. – The Monodiam-HE project: monocristalline diamond for HL-LHC pixel detectors – *Proc. à paraître (PoS)*

UCN

Physics of Fundamental Symmetries and Interactions (PSI2013), Villigen, Switzerland, September 9-12 2013

- **M. Guigue** – Probing sub-eV particles with 3He detector

Astroparticules et Cosmologie

AMS-CREAM-LSST

The XLVIIth Rencontres de Moriond Cosmology 2012, La Thuile, Italy, March 10-17 2012

- **J.-S. Ricol** – Probing dark energy with the Large Synoptic Survey Telescope (LSST)

International Conference on Quantum Gravity (LOOPS 2013), Toronto, Canada, July 22-25 2013

- **B. Bolliet, A. Barrau** – Primordial tensor power spectrum and B-modes of the CMB in loop quantum cosmology

International School for Astroparticle Physics. Dark Matter Composition and Detection (ISAPP 2013), Djurönäset, Sweden, July 29 - August 6 2013

- **V. Bonnivard** – Indirect detection of dark matter in the gamma-ray channel in dwarf spheroidal galaxies

LSST@Europe: The Path to Science, Cambridge, United Kingdom, September 9-12 2013

- **J.-S. Ricol** – A new method to improve photometric redshift reconstruction

Auger-CODALEMA

23rd European Cosmic Ray Symposium (ECRS 2012), Moscow, Russia, July 3-7 2012

- **K. Louedec, M. Will** – Atmospheric considerations for CTA site search using global models – *J. of Phys. Conf. Series 409 (2013) 012121*

Cargese School 2013 Cosmic Accelerators, Cargese, France, April 29 - May 8 2013

- **S. Le Coz** – Microwave detection of extensive air shower at the Pierre Auger Observatory

International Workshop on Atmospheric Monitoring for High-Energy Astroparticle Detectors (AtmoHEAD), Saclay, France, 10-12 juin 2013

- M.I. Micheletti al. – Aerosol concentration measurements and analysis of air mass backward trajectories at the Pierre Auger Observatory – *Proc. à paraître*

2013 European Physical Society Conference on High Energy Physics (EPSHEP 2013), Stockholm, Sweden, July 18-24 2013

- **K. Louedec** for the Pierre Auger Collaboration – Radio-detection of extensive air showers at the Pierre Auger Observatory - Results and enhancements – *Proc. à paraître (PoS)*

- J. Alvarez-Muniz et al. for the AMY Collaboration – The Air Microwave Yield (AMY) experiment - A laboratory measurement of the microwave emission from extensive air showers – *Proc. à paraître (PoS)*

Planck-MIMAC

Doctoriales 2012, Autrans, France, 25-30 mars 2012

- **G. Hurier** – Étude de la toile cosmique via l'effet Sunyaev Zel'dovich

47th ESLAB Symposium The Universe as seen by Planck, Noordwijk, The Netherlands, April 2-5 2013

- **L. Sanselme** – Assessing the robustness of the Planck HFI data at the ring level

Neutron and Ion Dosimetry Symposium (NEUDOS12), Aix en Provence, France, 3-7 juin 2013

- D. Maire et al. – Development of a μ TPC detector as a standard instrument for low energy neutron field characterization – *Proc. à paraître (Radiation Protection Dosimetry)*

Physique hadronique et Matière nucléaire

ALICE-JLab

Rencontres Françaises sur la physique des hautes énergies au LHC (LHC France 2013), Annecy, France, 2-6 avril 2013

- G. Conesa-Balbastre – Neutral meson production in pp and Pb-Pb collisions at the LHC measured with ALICE

4th International Particle Accelerator Conference (IPAC 13), Shanghai, China, May 12-17 2013

- A.H. Adeyemi, E. Voutier – The calibration of the PEPPo polarimeter for electrons and positrons source – *Proc. on Line JACoW IPAC2013 861-863*

Structure Nucléaire

École Joliot-Curie 2012 Nuclei through the looking glass, Fréjus, France, 30 septembre - 5 octobre 2012

- A. Vancraeynest – Gamma ray spectroscopy of neutron rich nuclei in the vicinity of ^{132}Sn produced by fission reaction
- F. Drouet – Mesures de gamma prompts en provenance des expériences avec des détecteurs germanium. Étude des noyaux exotiques

5th International Workshop on Nuclear Fission and Fission-Product Spectroscopy (FISSION2013), Caen, France, 28-31 mai 2013

- F. Drouet et al. – Prompt γ -ray spectroscopy of N=50 fission fragments – *EPJ Web of Conferences 62 (2013) 01005*
- I. Companis et al. – Development of an experimental set-up for the measurement of neutron-induced fission and capture cross sections of radioactive fissile nuclei – *EPJ Web of Conferences 62 (2013) 05007*

International Conference on Advancements in Nuclear Instrumentation Measurement Methods and their Applications (ANIMMA 2013), Marseille, France, 23-27 juin 2013

- P. Mutti et al. – A trigger-less acquisition system for the EXILL large Ge detectors arrays – *Proc. à paraître (IEEE)*

Physique des réacteurs

International Conference on Translational Research in Radiation Oncology Physics for Health Care in Europe (ICTR-PHE 2012), Geneva, Swiss, February 27 - March 2 2012

- I. Fonteille – TraDeRa - Development of a Transparent Detector for Radiotherapy on-line beam monitoring: a simulation study

Rôle accélérateur et sources d'ions

International Particle Accelerator Conference (IPAC'12), New Orleans, Louisiana, USA, May 20-25 2012

- S. Guiducci et al. – Baseline design of the SuperB factory injection system – *Proc on line Jacow IPAC2012 2032-2034*

- E.H.M. Wildner et al. – Beta beams for precision measurement of neutrino oscillation parameters – *Proc on line Jacow IPAC2012* 3939-3941

12th International Conference on Heavy Ion Accelerator Technology (HIAT 2012), Chicago, IL, USA, June 18-21 2012

- D. Boutin et al. – The RIB dynamics of the SPIRAL 2 transfer line – *Proc on line JACoW HIAT2012 PO03* 54-57

4th International Particle Accelerator Conference (IPAC 13), Shanghai, China, May 12-17 2013

- P.E. Bernaudin et al. – Assembling, Testing and Installing the SPIRAL2 Superconducting LINAC – *Proc. on Line JACoW IPAC2013* 3752-3754

- O. Dadoun et al. – Characterization of the Analyzing Target of the PEPPo Experiment source – *Proc. on Line JACoW IPAC2013* 864-866

International Nuclear Physics Conference (INPC 2013), Firenze, Italy, June 2-7 2013

- G. Bisoffi et al. – ALPI Setup as the SPES Accelerator of Exotic Beams – *Proc. à paraître*

15th International Conference on Ion Sources (ICIS'13), Chiba, Japan, September 9-13 2013

- A. Galatà et al. – The charge breeder beam line for the selective production of exotic species project at INFN-Legnaro National Laboratories – *Rev. Sci. Instrum.* 85 (2014) 02B905

- O. Tarvainen et al. – Ionization efficiency studies with charge breeder and conventional electron cyclotron resonance ion source – *Rev. Sci. Instrum.* 85 (2014) 02B917

16th International Conference on RF Superconductivity (SRF2013), Paris, France, 23-27 septembre 2013

- G. Olry et al. – Spiral2 cryomodules B tests results – *Proc. on Line JACoW à paraître*

- Y. Gomez Martinez et al. – Last Spiral 2 couplers preparation and RF conditioning – *Proc. on Line JACoW à paraître*

Interdisciplinaire

DAMe

52^{èmes} Journées Scientifiques - Société Française de Physique Médicale, Nice, France, 5-7 juin 2013

- L. Weber et al. – Development of a transparent detector for the online monitoring of IMRT beams

Plasmas – Matériaux - Nanostructures

XXI Europhysics Conference on Atomic and Molecular Physics of Ionized Gases (ESCAMPIG), Viana do Castelo, Portugal, July 10-14 2012

- S. Béchu et al – Surface mechanisms investigation for negative ion production – *Proc. on line EPS ECA 36A ISBN 2914771746*

- A. Lacoste et al. – Top-to-tail microwave plasma sources with extended operating conditions – *Proc. on line EPS ECA 36A ISBN 2914771746*

- A. Soum-Glaude et al. – H atom density measurement using a combination of optical emission spectroscopy and Langmuir probes diagnostics – *Proc. on line EPS ECA 36A ISBN 2914771746*

VIIIth International Workshop on Microwave Discharges: Fundamentals and Applications, Zvenigorod, Russia, September 10-14 2012

- **P. Baele** et al. – Design and performance head-to-head microwave plasma sources – *VIIIth International Workshop on Microwave Discharges: Fundamentals and Applications Proceedings, Ed. by Yu.A. Lebedev, (2012) ISBN 9785803705703 147-150*

Services Techniques – développements technologiques

International Symposium on Future Directions on UHECR Physics (UHECR 2012), CERN, Geneva, Switzerland, February 13-16 2012

- **F. Sarazin** et al. – The Pierre Auger Research and Development Array (RDA) in southeastern Colorado – R&D for a giant ground array – *EPJ Web of Conferences 53 (2013) 08017*

Computing in High Energy and Nuclear Physics (CHEP2012), New-York, USA, May 21-25 2012

- **E.J. Gallas** et al. – Conditions and configuration metadata for the ATLAS experiment – *J. of Phys. Conf. Series 396 (2012) 052033*
- **E.J. Gallas** et al. on behalf of the ATLAS Collaboration – ATLAS file and dataset metadata collection and use – *J. of Phys. Conf. Series 396 (2012) 052005*
- D. Rousseau et al. – Monitoring of computing resource utilization of the ATLAS experiment – *J. of Phys. Conf. Series 396 (2012) 032112*

5th International Symposium on High-Energy Gamma-Ray Astronomy (Gamma2012), Heidelberg, Germany, July 9-13 2012

- **C. Naumann** et al. – Nectar: New electronics for the Cherenkov Telescope Array – *AIP Conf. Proc. 1505 (2012) 785-788*

2012 Nuclear Science Symposium, Medical Imaging Conference & Workshop on Room-Temperature Semiconductor X-Ray and Gamma-Ray Detectors (2012 IEEE NSS/MIC/RTSD), Anaheim, California, États-Unis, October 29 - November 3 2012

- **F. Rarbi** et al. – A low cross-talk 3-channel analog multiplexer with a 12-bit 25-MS/s pipelined ADC – *Nuclear Science Symposium and Medical Imaging Conference (NSS/MIC), 2012 IEEE 886 - 889*

International Conference on Advancements in Nuclear Instrumentation Measurement Methods and their Applications (ANIMMA 2013), Marseille, France, 23-27 juin 2013

- **D. Maire** et al. – Measurement of a 127 keV neutron field with the future standard spectrometer μ -TPC – *Proc. à paraître (IEEE)*

Journées Nationales du Développement Logiciel (JDEV2013), Palaiseau, France, 4-6 septembre 2013

- **O. Zimmermann, R. Faure** – LABVIEW au laboratoire - l'impact vertueux de SVN

Topical Workshop on Electronics for Particle Physics (TWEPP-13), Perugia, Italy, September 23-27 2013

- **L. Eraud** et al. – The high voltage power supplies of the CREAM experiment – *Proc. à paraître (JINST)*

20th International Conference on Computing in High Energy and Nuclear Physics (CHEP2013), Amsterdam, Netherlands, October 14-18 2013

- **C. Biscarat**, B. Bzeznik – Synergy between the CIMENT tier-2 HPC centre in Grenoble (France) and the HEP community at LPSC (“Laboratoire de Physique Subatomique et de Cosmologie”) methods – *Proc. à paraître (Journal of Physics: Conference Series)*

2013 IEEE Nuclear Science Symposium & Medical Imaging Conference & Workshop on Room-Temperature Semiconductor X-Ray and Gamma-Ray Detectors (2013 IEEE NSS/MIC/RTSD), Seoul, Korea, October 27 – November 2 2013

- **D. Dzahini** on behalf of the Atlas Liquid Argon Calorimeter Group – PEALL: a 12-Bit, 40-MSPS, Power Efficient and Low Latency SAR AD – *Proc. à paraître*

Publications

Articles publiés dans des revues scientifiques

Quarks, leptons et symétries fondamentales

DELPHI Collaboration

- S. Schael et al. The ALEPH, DELPHI, L3, OPAL Collaboration, The LEP Electroweak Working Group – Electroweak measurements in electron-positron collisions at W-boson-pair energies at LEP – *Phys. Rep.* 532 (2013) 119-244

ATLAS Collaboration

G. Aad et al. The ATLAS Collaboration

- Performance of the ATLAS Trigger System in 2010 – *Eur. Phys. J. C* 72 (2012) 1849
- Measurement of the pseudorapidity and transverse momentum dependence of the elliptic flow of charged particles in lead-lead collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector – *Phys. Lett. B* 707 (2012) 330-348
- Measurement of the centrality dependence of the charged particle pseudorapidity distribution in lead-lead collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector – *Phys. Lett. B* 710 (2012) 363-382
- Performance of missing transverse momentum reconstruction in proton-proton collisions at $\sqrt{s} = 7$ TeV with ATLAS – *Eur. Phys. J. C* 72 (2012) 1844
- A study of the material in the ATLAS inner detector using secondary hadronic interactions – *JINST* 7 (2012) P01013
- Measurements of the electron and muon inclusive cross-sections in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector – *Phys. Lett. B* 707 (2012) 438-458
- Electron performance measurements with the ATLAS detector using the 2010 LHC proton-proton collision data – *Eur. Phys. J. C* 72 (2012) 1909
- Search for a heavy Standard Model Higgs boson in the channel $H \rightarrow ZZ \rightarrow l^+l^-q\bar{q}$ using the ATLAS detector – *Phys. Lett. B* 707 (2012) 27-45
- Measurement of the $W \rightarrow \tau\nu_\tau$ cross section in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS experiment – *Phys. Lett. B* 706 (2012) 276-294
- Search for supersymmetry in final states with jets, missing transverse momentum and one isolated lepton in $\sqrt{s} = 7$ TeV pp collisions using 1 fb^{-1} of ATLAS data – *Phys. Rev. D* 85 (2012) 012006
- Search for displaced vertices arising from decays of new heavy particles in 7 TeV pp collisions at ATLAS – *Phys. Lett. B* 707 (2012) 478-496
- Measurement of the transverse momentum distribution of W bosons in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector – *Phys. Rev. D* 85 (2012) 012005
- Search for new phenomena in $t\bar{t}$ events with large missing transverse momentum in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector – *Phys. Rev. Lett.* 108 (2012) 041805
- Search for new physics in the dijet mass distribution using 1 fb^{-1} of pp collision data at $\sqrt{s} = 7$ TeV collected by the ATLAS detector – *Phys. Lett. B* 708 (2012) 37-54

- Measurement of the cross-section for b-jets produced in association with a Z boson at $\sqrt{s} = 7$ TeV with the ATLAS detector – *Phys. Lett. B* 706 (2012) 295-313
- Measurement of the production cross section for Z/γ^* in association with jets in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector – *Phys. Rev. D* 85 (2012) 032009
- Searches for supersymmetry with the ATLAS detector using final states with two leptons and missing transverse momentum in $\sqrt{s} = 7$ TeV proton-proton collisions – *Phys. Lett. B* 709 (2012) 137-157
- Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in $\sqrt{s} = 7$ TeV proton-proton collisions – *Phys. Lett. B* 710 (2012) 67-85
- Measurement of the top quark pair production cross section in pp collisions at $\sqrt{s} = 7$ TeV in dilepton final states with ATLAS collisions – *Phys. Lett. B* 707 (2012) 459-477
- Measurement of the cross section for the production of a W boson in association with b-jets in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector – *Phys. Lett. B* 707 (2012) 418-437
- Search for decays of stopped, long-lived particles from 7 TeV pp collisions with the ATLAS detector – *Eur. Phys. J. C* 72 (2012) 1965
- Search for diphoton events with large missing transverse momentum in 1 fb⁻¹ of 7 TeV proton-proton collision data with the ATLAS detector – *Phys. Lett. B* 710 (2012) 519-537
- Publisher’s Note: Search for supersymmetry in final states with jets, missing transverse momentum and one isolated lepton in $\sqrt{s} = 7$ TeV pp collisions using 1 fb⁻¹ of ATLAS data [*Phys. Rev. D* 85 012006 (2012)] – *Phys. Rev. D* 87 (2013) 099903(E)
- Jet energy measurement with the ATLAS detector in proton-proton collisions at $\sqrt{s} = 7$ TeV – *Eur. Phys. J. C* 73 (2013) 2304
- K_S^0 and Λ production in pp interactions at $\sqrt{s} = 0.9$ and 7 TeV measured with the ATLAS detector at the LHC – *Phys. Rev. D* 85 (2012) 012001
- Measurement of the ZZ production cross section and limits on anomalous neutral triple gauge couplings in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS – *Phys. Rev. Lett.* 108 (2012) 041804
- Search for strong gravity signatures in same-sign dimuon final states using the ATLAS detector at the LHC – *Phys. Lett. B* 709 (2012) 322-340
- Measurement of the isolated di-photon cross-section in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector – *Phys. Rev. D* 85 (2012) 012003
- Search for anomalous production of prompt like-sign muon pairs and constraints on physics beyond the Standard Model with the ATLAS detector – *Phys. Rev. D* 85 (2012) 032004
- Measurement of the $W\pm Z$ production cross section and limits on anomalous triple gauge couplings in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector – *Phys. Lett. B* 709 (2012) 341-357
- Search for the Higgs boson in the $H \rightarrow WW^{(*)} \rightarrow l^+ \nu l^- \bar{\nu}$ decay channel in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector – *Phys. Rev. Lett.* 108 (2012) 111802

- Study of jets produced in association with a W boson in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector – *Phys. Rev. D* 85 (2012) 092002
- Search for production of resonant states in the photon-jet mass distribution using pp collisions at $\sqrt{s} = 7$ TeV collected by the ATLAS detector – *Phys. Rev. Lett.* 108 (2012) 211802
- A measurement of the ratio of the W and Z cross sections with exactly one associated jet in pp collisions at $\sqrt{s} = 7$ TeV with ATLAS – *Phys. Lett. B* 708 (2012) 721-740
- Measurement of the inclusive W^\pm and Z/γ^* cross sections in the e and μ decay channels in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector – *Phys. Rev. D* 85 (2012) 072004
- Search for anomaly-mediated supersymmetry breaking with the ATLAS detector based on a disappearing-track signature in pp collisions at $\sqrt{s} = 7$ TeV – *Eur. Phys. J. C* 72 (2012) 1993
- Search for first generation scalar leptoquarks in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector – *Phys. Lett. B* 709 (2012) 158-176
- Erratum to “Search for first generation scalar leptoquarks in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector” [*Phys. Lett. B* 709 (2012) 158] – *Phys. Lett. B.* 711 (2012) 442-455
- Rapidity gap cross sections measured with the ATLAS detector in pp collisions at $\sqrt{s} = 7$ TeV – *Eur. Phys. J. C* 72 (2012) 1926
- Search for extra dimensions using diphoton events in 7 TeV proton-proton collisions with the ATLAS detector ATLAS Collaboration – *Phys. Lett. B* 710 (2012) 538-556
- Observation of a new state in χ_b radiative transitions $\Upsilon(1S)$ to $\Upsilon(2S)$ and at ATLAS – *Phys. Rev. Lett.* 108 (2012) 152001
- Search for excited leptons in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector – *Phys. Rev. D* 85 (2012) 072003
- Search for scalar bottom quark pair production with the ATLAS detector in pp collisions at $\sqrt{s} = 7$ TeV – *Phys. Rev. Lett.* 108 (2012) 181802
- Measurement of the polarisation of W bosons produced with large transverse momentum in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS experiment – *Eur. Phys. J. C* 72 (2012) 2001
- Measurement of the production cross section of an isolated photon associated with jets in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector – *Phys. Rev. D* 85 (2012) 092014
- Search for a light Higgs boson decaying to long-lived weakly-interacting particles in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector – *Phys. Rev. Lett.* 108 (2012) 251801
- Measurement of the charge asymmetry in top quark pair production in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector – *Eur. Phys. J. C* 72 (2012) 2039
- Measurement of the top quark mass with the template method in the $t\bar{t} \rightarrow \text{lepton} + \text{jets}$ channel using ATLAS data – *Eur. Phys. J. C* 72 (2012) 2046
- Search for pair production of a heavy up-type quark decaying to a W Boson and a b quark in the lepton+jets channel with the ATLAS detector – *Phys. Rev. Lett.* 108 (2012) 261802

- Search for contact interactions in dilepton events from pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector – *Phys. Lett. B* 712 (2012) 40-58
- Search for heavy neutrinos and right-handed W bosons in events with two leptons and jets in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector – *Eur. Phys. J. C* 72 (2012) 2056
- Determination of the strange quark density of the proton from ATLAS measurements of the $W \rightarrow l\nu$ and $Z \rightarrow ll$ cross sections – *Phys. Rev. Lett.* 109 (2012) 012001
- Search for new particles decaying to ZZ using final states with leptons and jets with the ATLAS detector in $\sqrt{s} = 7$ TeV proton-proton collisions – *Phys. Lett. B* 712 (2012) 331-350
- Search for FCNC single top-quark production at $\sqrt{s} = 7$ TeV with the ATLAS detector – *Phys. Lett. B* 712 (2012) 351-369
- Search for down-type fourth generation quarks with the ATLAS detector in events with one lepton and high transverse momentum hadronically decaying W bosons in $\sqrt{s} = 7$ TeV pp collisions – *Phys. Rev. Lett.* 109 (2012) 032001
- Search for pair-produced heavy quarks decaying to Wq in the two-lepton channel at $\sqrt{s} = 7$ TeV with the ATLAS detector – *Phys. Rev. D* 86 (2012) 012007
- Measurement of inclusive two-particle angular correlations in pp collisions with the ATLAS detector at the LHC – *JHEP* 05 (2012) 157
- Measurement of the cross section for top-quark pair production in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector using final states with two high- p_T leptons – *JHEP* 05 (2012) 059
- Search for TeV-scale gravity signatures in final states with leptons and jets with the ATLAS detector at $\sqrt{s} = 7$ TeV – *Phys. Lett. B* 716 (2012) 122-141
- Measurement of the azimuthal ordering of charged hadrons with the ATLAS detector – *Phys. Rev. D* 86 (2012) 052005
- Forward-backward correlations and charged-particle azimuthal distributions in pp interactions using the ATLAS detector – *JHEP* 07 (2012) 019
- Single hadron response measurement and calorimeter jet energy scale uncertainty with the ATLAS detector at the LHC – *Eur. Phys. J. C* 73 (2013) 2305
- Measurement of $D^{*\pm}$ meson production in jets from pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector – *Phys. Rev. D* 85 (2012) 052005
- Measurement of the top quark pair production cross-section with ATLAS in the single lepton channel – *Phys. Lett. B* 711 (2012) 244-263
- Measurement of inclusive jet and dijet production in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector – *Phys. Rev. D* 86 (2012) 014022
- Search for heavy vector-like quarks coupling to light quarks in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector – *Phys. Lett. B* 712 (2012) 22-39
- Search for the standard model Higgs boson in the diphoton decay channel with 4.9 fb^{-1} of pp collisions at $\sqrt{s} = 7$ TeV with ATLAS – *Phys. Rev. Lett.* 108 (2012) 111803
- Search for same-sign top-quark production and fourth-generation down-type quarks in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector – *JHEP* 04 (2012) 069
- Observation of spin correlation in $t\bar{t}$ events from pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector – *Phys. Rev. Lett.* 108 (2012) 212001

- Search for the standard model Higgs boson in the decay channel $H \rightarrow ZZ^{(*)} \rightarrow 4l$ with 4.8 fb^{-1} of pp collisions at $\sqrt{s} = 7 \text{ TeV}$ with ATLAS – *Phys. Lett. B* 710 (2012) 383-402
- Combined search for the Standard Model Higgs boson using up to 4.9 fb^{-1} of pp collision data at $\sqrt{s} = 7 \text{ TeV}$ with the ATLAS detector at the LHC – *Phys. Lett. B* 710 (2012) 49-66
- Search for resonant WZ production in the $WZ \rightarrow l \nu l' l'$ channel in $\sqrt{s} = 7 \text{ TeV}$ pp collisions with the ATLAS detector – *Phys. Rev. D* 85 (2012) 112012
- Measurement of $t\bar{t}$ production with a veto on additional central jet activity in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ using the ATLAS detector – *Eur. Phys. J. C* 72 (2012) 2043
- Measurement of τ polarization in $W \rightarrow \tau \nu$ decays with the ATLAS detector in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ – *Eur. Phys. J. C* 72 (2012) 2062
- Search for supersymmetry in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ in final states with missing transverse momentum and b-jets with the ATLAS detector – *Phys. Rev. D* 85 (2012) 112006
- Measurement of the WW cross section in $\sqrt{s} = 7 \text{ TeV}$ pp collisions with the ATLAS detector and limits on anomalous gauge couplings – *Phys. Lett. B* 712 (2012) 289-308
- Measurement of the azimuthal anisotropy for charged particle production in $\sqrt{s_{NN}} = 2.76 \text{ TeV}$ lead-lead collisions with the ATLAS detector – *Phys. Rev. D* 86 (2012) 014907
- Jet mass and substructure of inclusive jets in $\sqrt{s} = 7 \text{ TeV}$ pp collisions with the ATLAS experiment – *JHEP* 05 (2012) 128
- Search for events with large missing transverse momentum, jets, and at least two tau leptons in 7 TeV proton-proton collision data with the ATLAS detector – *Phys. Lett. B* 714 (2012) 180-196
- Search for gluinos in events with two same-sign leptons, jets and missing transverse momentum with the ATLAS detector in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ – *Phys. Rev. Lett.* 108 (2012) 241802
- Search for pair production of a new b' quark that decays to a Z boson and a bottom quark with the ATLAS detector – *Phys. Rev. Lett.* 109 (2012) 071801
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