Gmail **Pablo Martinez Ruiz del Arbol <pablo.martinez.ruizdelarbol@gmail.com>**

[CINCO] [LP2019] Pablo Martinez Ruiz Del Arbol (Universidad de Cantabria) accepted invitation to give a talk at LP2019

1 message

[CINCO] Cms INformation on COnferences <cms-conf-cinco@cern.ch> Sun, May 19, 2019 at 12:10 PM
Reply-To: "Automatic message: do not Reply" <noreply@cern.ch>
To: pablo.martinez@cern.ch
Cc: toyoko.orimoto@cern.ch, chris.tully@cern.ch, lindsey.gray@cern.ch, francesco.santanastasio@cern.ch, david.winn@cern.ch, tommaso.tabarelli@cern.ch, brad.cox@cern.ch, ketino.kaadze@cern.ch, arnd.meyer@cern.ch, somnath.choudhury@cern.ch

Dear Committee,

Pablo Martinez Ruiz Del Arbol (Universidad de Cantabria) [mailto:Pablo.Martinez@cern.ch] just accepted to give a talk "Precision Timing with the CMS MIP Timing Detector"
https://cms-mgt-conferences.web.cern.ch/cms-mgt-conferences/conferences/pres_display.aspx?cid=2470&pid=19968

at "LP2019: 29th International Symposium on Lepton Photon Interactions at High Energies, 5-10 Aug 2019, University of Toronto, Toronto (Canada)"
https://cms-mgt-conferences.web.cern.ch/cms-mgt-conferences/conferences/conf_display.aspx?cid=2470

EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH
COMPACT MUON SOLENOID COLLABORATION

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To Whom It May Concern

Geneva, 07.01.2010

Votre référence / Your reference :
Notre référence / Our reference : CMS-Z.G

Certificate of Presence

We hereby certify that Pablo Martínez Ruiz del Árbol, member of the CMS Collaboration, has given the following oral presentations at conferences, workshops, and seminars on the dates and places indicated below:

"Precision Timing with the CMS MIP Timing Detector" at "LP2019: 29th International Symposium on Lepton Photon Interactions at High Energies, 5-10 Aug 2019, University of Toronto, Toronto (Canada)".

"Dark matter at LHC" at "Split2018: 2018 LHC days in Split, 17-22 Sep 2018, University of Split - FESB and Faculty of Science, Split (Croatia)".

"Searches for BSM physics in the 2 leptons y MET final state" at "IX CPAN days: IX CPAN days, Centro Nacional de Partículas, Astropartículas y Nuclear, 23-25 Oct 2017, CPAN, Santander (Spain)".

"Review of Supersymmetry Searches at 13 TeV with the CMS experiment" at "DM2016: Dark Matter 2016: From the smallest to the largest scales, 27 Jun-1 Jul 2016, Santander (Spain)".

"CMS SUSY searches at 13 TeV" at "LPCC Seminar: CERN LPCC EP-LHC Seminar Series, 9 Feb 2016, Geneva (Switzerland)".

"Search for Beyond the Standard Model Physics in multi-leptonic and photonic final states with the CMS detector" at "ICHEP 2014: 37th International Conference on High Energy Physics, 2-9 Jul 2014, Valencia (Spain)".

"Searches for SUSY in events with two or more leptons at CMS" at "ICHEP 2012: International Conference on High Energy Physics, 4-12 Jul 2012, Melbourne, VIC (Australia)".

"Susy searches in the Z+Jets+MET final state in 7 TeV pp collisions with the jet-z balance method" at "Bienal RSEF: XXXIII Reunión Bienal de la Real Sociedad Española de Física, 19-23 Sep 2011, Universidad de Cantabria, Santander (Spain)".

"Commissioning and Performance of the CMS Detector" at "Blois2010: 22nd Rencontres de Blois on "Particle Physics and Cosmology; First Results from the LHC", 15-20 Jul 2010, Blois (France)".

"The CMS Muon System Alignment: First results from commissioning runs " at "BIENALFISICA09: XXXII Bienal de Física, 7-11 Sep 2009, Ciudad Real (Spain)".

"Muon Alignment in ATLAS and CMS" at "Detector Understanding with First LHC Data, 29 Jun-3 Jul 2009, DESY, Hamburg (Germany)".

"The CMS Muon System Alignment" at "CHEP09: International Conference On Computing In High Energy Physics And Nuclear Physics, 21-27 Mar 2009, Prague (Czech Republic)".

CMS Secretariat

CERN
CMS
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CMS Collaboration
(Compact Muon Solenoid)
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PROCEEDINGS OF SCIENCE

Precision timing with the CMS MIP timing detector

Pablo Martinez Ruiz del Arbol* **on behalf of the CMS Collaboration**
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The Compact Muon Solenoid detector at the CERN Large Hadron Collider is undergoing an extensive Phase II upgrade program to prepare for the challenging conditions of the High-Luminosity LHC. In particular, a new timing layer with hermetic coverage up to a pseudo-rapidity of $|\eta|$=3 will measure minimum ionizing particles with a time resolution of 30 ps. This MIP Timing Detector will consist of a central barrel region based on LYSO:Ce crystals read out with SiPMs and two end-caps instrumented with radiation-tolerant Low Gain Avalanche Detectors. The precision time information from the MTD will reduce the effects of the high levels of pile-up expected at the HL-LHC and will bring new and unique capabilities to the CMS detector. The time information assigned to each track will enable the use of 4D reconstruction algorithms and will further discriminate interaction vertices within the same bunch crossing to recover the track purity of vertices in current LHC conditions. For instance, in the analysis of di-Higgs boson production, a timing resolution of 30-40 ps is expected to improve the effective luminosity by about 25% through gains in b-tagging and isolation efficiency. We present motivations for precision timing at the HL-LHC and overview the MTD design, while also highlighting specific physics studies benefiting from the improved timing information.

XXIX International Symposium on Lepton Photon Interactions at High Energies - LeptonPhoton2019
August 5-10, 2019
Toronto, Canada

*Speaker.

PoS(LeptonPhoton2019)100

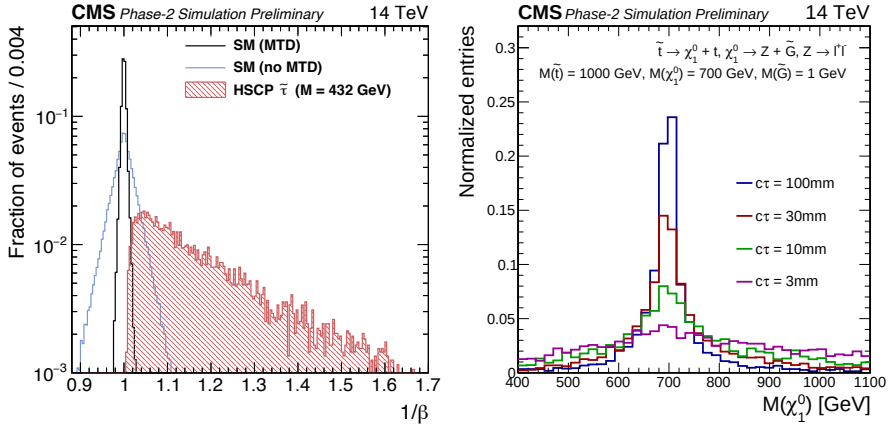

Figure 6: Distribution of the inverse of the particle velocity for the HSCP signal, the background, and the background estimated with the MTD (left), and neutralino mass estimated using the timing information for a SUSY GMSB model with different lifetimes (right).

tion. This detector will be composed of two parts: the Barrel Timing Layer based on LYSO crystals and the Endcap Timing Layer based on silicon sensors (LGADs). The inclusion of timing information is expected to have a strong impact in the mitigation of the harsh pile-up conditions at the HL-LHC. By associating a time stamp to the tracks, the number of spurious tracks not compatible in time with the primary vertex will be reduced improving the physics object performance for jet reconstruction, b-tagging algorithms, lepton isolation, transverse missing momentum resolution, etc. These improvements will translate into a sensitivity increase for important analyses such as the double Higgs search, and will also bring unique physics potential for complicated topologies such as those involving the production of long-lived particles.

References

[1] Apollinari, G. and Bruning, O. and Nakamoto, T. and Rossi, Lucio. *High Luminosity Large Hadron Collider HL-LHC*. CERN Yellow Rep. 5 1-19, 2015. 10.5170/CERN-2015-005.1.

[2] Chatrchyan, S. and others. *The CMS experiment at the CERN LHC*. JINST, 3 S08004, 2008, 10.1088/1748-0221/3/08/S08004.

[3] D. Anderson et al. *On timing properties of LYSO-based calorimeters*. Nucl. Instrum. Meth. A 794 (2015) 7, doi:10.1016/j.nima.2015.04.013.

[4] G. Pellegrini et al. *Technology developments and first measurements of Low Gain Avalanche Detectors (LGAD) for high energy physics applications*. Nucl. Instrum. Meth. A 765 (2014) 12, doi:10.1016/j.nima.2014.06.008.

PROCEEDINGS OF SCIENCE

XXIX International Symposium on Lepton Photon Interactions at High Energies

LeptonPhoton2019 - (other lp conferences)

August 5-10, 2019
Toronto, Canada

Entries on ADS

The 29th International Symposium on Lepton Photon Interactions at High Energies will take place in Toronto, Canada between August 5-10, 2019. The Conference follows the tradition of a long series of high energy physics conferences, the International Symposia on Lepton and Photon Interactions at High Energies. The program features plenary sessions covering topics of major interest to the particle physics community. New this year will be two (or three) tracks of parallel sessions for one day, that will provide an opportunity for additional presenters to give a more in-depth presentation of individual physics results. We will also organise poster sessions where additional researchers may present their work.

The conference is hosted by the University of Toronto, and will take place at the Westin Harbour Castle Hotel on the lakefront in downtown Toronto.

Collider SM

Status and Plans for CERN Accelerator Complex
PoS(LeptonPhoton2019)002 **pdf** *P. Collier*

CKM and CP Constraints from B-Decays
PoS(LeptonPhoton2019)006 **pdf** *S. Nishida*

New Physics Searches with Top Quarks
PoS(LeptonPhoton2019)012 **pdf** *S. Westhoff*

Collider BSM

Rare decays of B-hadrons
PoS(LeptonPhoton2019)014 **pdf** *C. Marin Benito and on behalf of the LHCb collaboration*

Constraints on New Physics from B Mesons
PoS(LeptonPhoton2019)015 **pdf** *M. Blanke*

Intensity Frontier

Atmospheric Neutrinos and Proton Decay
PoS(LeptonPhoton2019)028 **pdf** *R. Wendell*

Astroparticle physics

Cosmological Measurements of Dark Energy and Dark Matter
PoS(LeptonPhoton2019)029 **pdf** *S. BenZvi*

Multi-messenger searches in astrophysics
PoS(LeptonPhoton2019)030 **pdf** *K. Egberts*

Traditional talks

Outreach Activities in High Energy Physics
PoS(LeptonPhoton2019)036 **pdf** *K. Assagman*

Future Projects

Advances in Particle Detectors
PoS(LeptonPhoton2019)040 **pdf** *J. Haba*

European Particle Physics Strategy Update
PoS(LeptonPhoton2019)044 **pdf** *B. Vachon*

Parallel Sessions

Semileptonic and leptonic D decays at BESIII
PoS(LeptonPhoton2019)046 **pdf** *K. Liu and On behalf of the BESIII collaboration*

Muon collider: the Low EMittance Muon Accelerator (LEMMA) approach
PoS(LeptonPhoton2019)047 **pdf** *N. Bartosik, M. Antonelli, O.R. Blanco-Garcia, M. Boscolo, M. Iafrati, B. Ponzio, M. Ricci, M. Rotondo, S. Hoh, D. Lucchesi, A. Paccagnella, J. Pazzini, S. Rossin, M. Zanetti, G. Ballerini, C. Brizzolari, V. Mascagna, M. Prest, M. Soldani, A. Bertolin, C. Curatolo, F. Gonella, L. Sestini, S. Ventura, C. Biino, B. Kiani, N. Pastrone, M. Pelliccioni, N. Amapane, A. Cappati, G. Cotto, O. Sans Planell, F. Anulli, M. Bauce, F. Collamati, F. Iacoangeli, L. Bandiera, G. Cavoto, E. Vallazza, M. Casarsa and A. Trioss*

Application of Quantum Machine Learning to High Energy Physics Analysis at LHC using IBM Quantum Computer Simulators and IBM Quantum Computer Hardware
PoS(LeptonPhoton2019)049 **pdf** *J. Chan, W. Guan, S. Sun, A.Z. Wang, S.L. Wu, C. Zhou, M. Livny, F. Carminati and A. Di Meglio*

A Generative-Adversarial Network Approach for the Simulation of QCD Dijet Events at the LHC
PoS(LeptonPhoton2019)050 **pdf** *R. Di Sipio, M. Faucci Giannelli, S. Ketabchi Haghighat and S. Palazzo*

ATLAS Trigger and Data Acquisition Upgrades for the High Luminosity LHC
PoS(LeptonPhoton2019)055 **pdf** *A. Camplani and on behalf of the ATLAS collaboration*

New results from the DANSS experiment
PoS(LeptonPhoton2019)056 **pdf** *Y. Shitov and on behalf of the DANSS collaboration*

Searches for charged lepton flavor violating muon decay, MEG/MEG II experiment
PoS(LeptonPhoton2019)057 **pdf** *T. Iwamoto and on behalf of the MEG-II collaboration*

B lifetime and $B^0 - \bar{B}^0$ mixing results from early Belle II data
PoS(LeptonPhoton2019)058 **pdf** *R. Rasheed and On behalf of the BELLE II collaboration*

Results and future plans of the NEXT double beta decay experiment
PoS(LeptonPhoton2019)060 **pdf** *A. Laing and on behalf of the NEXT Collaboration*

Search for Dark Sector Physics at the NA64 experiment in the context of the Physics Beyond Colliders Projects
PoS(LeptonPhoton2019)061 **pdf** *D. Banerjee, on behalf of the NA64 collaboration and on behalf of the Physics Beyond Colliders Conventional Beams Working Group*

The Super Charm-Tau Factory in Novosibirsk
PoS(LeptonPhoton2019)062 **pdf** *A. Barniakov and on behalf of the Super Charm-Tau Factory collaboration*

Dark Sector Physics with Belle II
PoS(LeptonPhoton2019)063 **pdf** *M. Campajola and On behalf of the BELLE II collaboration*

First look at time-dependent CP violation using early Belle II data
PoS(LeptonPhoton2019)064 **pdf** *D. Cervenkov and On behalf of the BELLE II collaboration*

Recent Neutrino Cross Section Measurements from MicroBooNE
PoS(LeptonPhoton2019)065 **pdf** *S. Gardiner and on behalf of the MicroBooNE Collaboration*

The Phase-II upgrade of the ATLAS Muon Spectrometer
PoS(LeptonPhoton2019)070 **pdf** *J. Zhu and On behalf of the ATLAS Muon Collaboration*

Small-Strip Thin Gap Chambers for the Muon Spectrometer Upgrade of the ATLAS Experiment
PoS(LeptonPhoton2019)071 **pdf** *B. Lefebvre and On behalf of the ATLAS Muon Collaboration*

Search for lepton-flavour violating and lepton-number violating decays of the D^0 meson and observation of $D^0 \to K^-\pi^+e^+e^-$
PoS(LeptonPhoton2019)073 **pdf** *F. Wilson and on behalf of the BABAR collaboration*

Freeze-in production of dark matter through spin-1 and spin-2 portals
PoS(LeptonPhoton2019)076 **pdf** *M. Dutra*

Beyond the Standard Model searches at HERA
PoS(LeptonPhoton2019)077 **pdf** *O. Turkot and on behalf of the H1 and ZEUS Collaboration*

Latest Results on the Radiation Tolerance of Diamond Detectors
PoS(LeptonPhoton2019)079 **pdf** *L. Baeni, A. Alexopoulos, M. Artuso, F. Bachmair, M.R. Bartosik, H.C. Beck, V. Bellini, V. Belyaev, B. Bentele, A. Bes, J.M. Brom, M. Bruzzi, G. Chiodini, D. Chren, V. Cindro, G. Claus, J. Collot, J. Cumalat, A. Dabrowski, R. D'Alessandro, D. Dauvergne, W. De Boer, C. Dorfer, M. Dunser, G. Eigen, V. Eremin, G.T. Forcolin, J. Forneris, L. Gallin-Martel, M.L. Gallin-Martel, K.K. Gan, M. Gastal, M. Goffe, J. Goldstein, A. Golubev, A. Gorišek, E. Grigoriev, J. Grosse-Knetter, A. Grummer, M. Guthoff, B. Hiti, D. Hits, M.R. Hoeferkamp, T. Hofmann, J. Hosselet, F. Hügging, C. Hutton, J. Janssen, H. Kagan, K. Kanxheri, R. Kass, M. Kis, G. Kramberger, S. Kuleshov, A. Lacoste, S. Lagomarsino, A. Lo Giudice, I. Lopez Paz, E. Lukosi, C. Maazouzi, I. Mandić, C. Mathieu, M. Menichelli, M. Mikuz, A. Morozzi, J. Moss, R. Mountain, A. Oh, P. Olivero, D. Passeri, H. Pernegger, R. Perrino, F. Picollo, M. Pomorski, R. Potenza, A. Quadt, F.E. Rarbi, A. Re, M.P. Reichmann, S. Roe, D.A. Sanz Becerra, M. Scaringella, C. Schmidt, S. Schnetzer, E.J. Schioppa, S. Sciortino, A. Scorzoni, S. Seidel, L. Servoli, D.S. Smith, B. Sopko, V. Sopko, S. Spagnolo, S. Spanier, K. Stenson, R. Stone, B. Stugu, C.M. Sutera, M. Traeger, W. Trischuk, M. Truccato, C. Tuve, J. Velthuis, N. Venturi, S. Wagner, R. Wallny, J.C. Wang, N. Wermes, M. Yamouni, J. Zalieckas, M. Zavrtanik and on behalf of the RD42 Collaboration*

Beam test results of 3D pixel detectors constructed with poly-crystalline CVD diamond
PoS(LeptonPhoton2019)080 **pdf** *M.P. Reichmann, A. Alexopoulos, M. Artuso, F. Bachmair, L. Bäni, M. Bartosik, H.P. Beck, V. Bellini, V. Belyaev, B. Bentele, A. Bes, J.M. Brom, M. Bruzzi, G. Chiodini, D. Chren, V. Cindro, G. Claus, J. Collot, J. Cumalat, A. Dabrowski, R. D'Alessandro, D. Dauvergne, W. de Boer, C. Dorfer, M. Dunser, G. Eigen, V. Eremin, G. Forcolin, J. Forneris, L. Gallin-Martel, M.L. Gallin-Martel, K.K. Gan, M. Gastal, M. Goffe, J. Goldstein, A. Golubev, A. Gorišek, E. Grigoriev, J. Grosse-Knetter, A. Grummer, M. Guthoff, B. Hiti, D. Hits, M. Hoeferkamp, T. Hofmann, J. Hosselet, F. Hügging, C. Hutton, J. Janssen, H. Kagan, K. Kanxheri, R. Kass, M. Kis, G. Kramberger, S. Kuleshov, A. Lacoste, S. Lagomarsino, A.L. Giudice, I. Lopez Paz, E. Lukosi, C. Maazouzi, I. Mandić', C. Mathieu, M. Menichelli, M. Mikuž, A. Morozzi, J. Moss, R. Mountain, A. Oh, P. Olivero, D. Passeri, H. Pernegger, R. Perrino, F. Picollo, M. Pomorski, R. Potenza, A. Quadt, F. Rarbi, A. Re, S. Roe, D.A. Sanz Becerra, M. Scaringella, C.J. Schmidt, S. Schnetzer, E. Schioppa, S. Sciortino, A. Scorzoni, S. Seidel, L. Servoli, D.J.B. Smith, B. Sopko, V. Sopko, S. Spagnolo, S. Spanier, K. Stenson, R. Stone, B. Stugu, C. Sutera, M. Traeger, W. Trischuk, M. Truccato, C. Tuve, J. Velthuis, N. Venturi, S.J. Wagner, R. Wallny, J.X. Wang, N. Wermes, M. Yamouni, J. Zalieckas, M. Zavrtanik and on behalf of the RD42 Collaboration*

Search for axion dark matter at IBS/CAPP
PoS(LeptonPhoton2019)081 **pdf** *S.W. Youn and Y. Semertzidis*

Low Radioactivity Argon for Dark Matter and Rare Event Searches
PoS(LeptonPhoton2019)084 **pdf** *R. Ajaj and on behalf of the Global Argon Dark Matter Collaboration*

Measurements of the Higgs boson decays to two bottom quarks
PoS(LeptonPhoton2019)085 **pdf** *L. Ambroz and on behalf of the ATLAS collaboration*

Latest results of the STEREO sterile neutrino search at the ILL Grenoble
PoS(LeptonPhoton2019)087 **pdf** *A. Bonhomme and on behalf of the STEREO Collaboration*

Physics beyond SM with Kaons at NA62
PoS(LeptonPhoton2019)088 **pdf** *R. Marchevski and on behalf of the NA62 Collaboration*

Direct top-quark decay width measurement at √s=13 TeV with the ATLAS experiment
PoS(LeptonPhoton2019)089 **pdf** *T. Dado and on behalf of the ATLAS collaboration*

Dispersive Two-Loop Calculations: Methodology and Applications
PoS(LeptonPhoton2019)090 **pdf** *A. Aleksejevs and S. Barkanova*

Subatomic Physics Education and Outreach in Newfoundland
PoS(LeptonPhoton2019)091 **pdf** *S. Barkanova*

CP violation and mixing in charm with LHCb
PoS(LeptonPhoton2019)092 **pdf** *S. Maccolini and on behalf of the LHCb collaboration*

CP violation and mixing in beauty with LHCb
PoS(LeptonPhoton2019)093 **pdf** *C.S. Rios and on behalf of the LHCb collaboration*

The CMS ECAL Upgrade for High Precision Timing and Energy Measurements at HL-LHC
PoS(LeptonPhoton2019)097 **pdf** *N. Marinelli and on behalf of the CMS collaboration*

Recent T2K Neutrino Oscillation Results
PoS(LeptonPhoton2019)098 **pdf** *H. O'Keeffe and On behalf of the T2K collaboration*

Precision Timing with the CMS MIP Timing Detector
PoS(LeptonPhoton2019)100 **pdf** *P. Martinez Ruiz Del Arbol and on behalf of the CMS collaboration*

Searching for resonant HH production at CMS
PoS(LeptonPhoton2019)104 **pdf** *N. Mc Coll and on behalf of the CMS collaboration*

Evolution of Regional, Age and Gender Demographics in the ATLAS Collaboration
PoS(LeptonPhoton2019)108 **pdf** *A.M. Rodriguez Vera and on behalf of the ATLAS collaboration*

Electroweak Physics with Polarized Beams at SuperKEKB Upgrade
PoS(LeptonPhoton2019)109 **pdf** *M. Roney*

Electric Dipole Moments From Dark Sectors
PoS(LeptonPhoton2019)110 **pdf** *S. Okawa*

Multi-component dark matter from a hidden gauged SU(3)
PoS(LeptonPhoton2019)111 **pdf** *S. Godfrey and A. Poulin*

Properties of Primary Cosmic Ray Protons, Helium, Carbon and Oxygen Nuclei Measured with the Alpha Magnetic Spectrometer on the International Space Station
PoS(LeptonPhoton2019)113 **pdf** *Y. Jia and On behalf of the AMS Collaboration*

TeV particle direct detection in space - Recent results from the DAMPE mission
PoS(LeptonPhoton2019)114 **pdf** *G. Marsella and on behalf of the DAMPE Collaboration*

Searches for ultra long-lived particles with MATHUSLA
PoS(LeptonPhoton2019)115 **pdf** *M. Diamond and on behalf of the MATHUSLA Collaboration*

Anisotropy of Particle Fluxes in Primary Cosmic Rays Measured with the Alpha Magnetic Spectrometer on the ISS
PoS(LeptonPhoton2019)117 **pdf** *I. Gebauer, M. Graziani, J. Casaus, M. Molero, C. Maña, M.A. Velasco, M. Gervasi, G. La Vacca, P.G. Rancoita and On behalf of the AMS Collaboration*

Exotic and Conventional Quarkonium Physics Prospects at Belle II
PoS(LeptonPhoton2019)119 **pdf** *B. Fulsom and On behalf of the BELLE II collaboration*

Posters

Vapour pressure differences of the Xenon Isotopes
PoS(LeptonPhoton2019)120 **pdf** *A. Alamre, I. Badhrees, B. Death, C. Licciardi and D. Sinclair*

Study of the Effects of Radiation at the CERN Gamma Irradiation Facility on the CMS Drift Tubes Muon Detector for the HL-LHC
PoS(LeptonPhoton2019)121 **pdf** *B. Alvarez Gonzalez and on behalf of the CMS MUON group*

Jiangmen Underground Neutrino Observatory computing requirements and infrastructure
PoS(LeptonPhoton2019)122 **pdf** *G. Andronico, X. Zhang and W. Li*

Physics Potential of the Jiangmen Underground Neutrino Observatory
PoS(LeptonPhoton2019)123 **pdf** *C. Lombardo, M. Buscemi, G. Andronico, S. Aiello, R. Bruno, R. Caruso, S. Costa, M. Fargetta, N. Giudice, N. Guardone, A. Insolia, S. Monforte, C. Tuve, G. Verde and on behalf of the JUNO collaboration*

Performance of the ATLAS tau-lepton trigger at the LHC in Run 2
PoS(LeptonPhoton2019)124 **pdf** *E.M. Asimakopoulou and on behalf of the ATLAS collaboration*

Dynamic Structure of Hadrons in ChPT
PoS(LeptonPhoton2019)125 **pdf** *S. Barkanova and A. Aleksejevs*

Performance of the CMS Electromagnetic Calorimeter in LHC Run2
PoS(LeptonPhoton2019)126 **pdf** *N. Bartosik and on behalf of the CMS collaboration*

Study of Physics Performances at Muon Collider
PoS(LeptonPhoton2019)127 **pdf** *N. Bartosik, N. Pastrone, A. Bertolin, A. Gianelle, L. Sestini, M. Casarsa, F. Collamati, A. Ferrari, A. Ferrari, D. Lucchesi, N. Mokhov, S. Striganov and P. Sala*

The ILC as a natural SUSY discovery machine and precision microscope: From light higgsinos to tests of unification
PoS(LeptonPhoton2019)129 **pdf** *M. Berggren and on behalf of the International Large Detector concept group*

Analytical reinterpretation of ATLAS dark matter mediator searches with final-state jets
PoS(LeptonPhoton2019)133 **pdf** *E. Corrigan and on behalf of the ATLAS collaboration*

Neutrino CP Violation with the European Spallation Source neutrino Super Beam project
PoS(LeptonPhoton2019)137 **pdf** *M. Dracos*

Implementation of the ATLAS trigger within the ATLAS Multi-Threaded AthenaMT Framework
PoS(LeptonPhoton2019)139 **pdf** *A. Elliot and on behalf of the ATLAS collaboration*

Semileptonic B decay results from early Belle II data
PoS(LeptonPhoton2019)141 **pdf** *A. Fodor and On behalf of the BELLE II collaboration*

T2K-WAGASCI: First physics run of the WAGASCI-BabyMIND detector with full setup
PoS(LeptonPhoton2019)142 **pdf** *P. Giorgio, on behalf of the Wagashi collaboration and On behalf of the T2K collaboration*

Current Status of LEGEND: Searching for Neutrinoless Double-Beta Decay in ^{76}Ge
PoS(LeptonPhoton2019)143 **pdf** *I. Guinn and J.M. López-Castaño*

Latest ALICE results on coherent J/ψ photoproduction in ultra-peripheral Pb−Pb collisions at the LHC
PoS(LeptonPhoton2019)145 **pdf** *T. Herman and on behalf of the ALICE collaboration*

ATLAS Level-1 Endcap Muon Trigger for Run 3
PoS(LeptonPhoton2019)146 **pdf** *H. Hibi and on behalf of the ATLAS collaboration*

Search for invisible decays of the Higgs boson at the ILC
PoS(LeptonPhoton2019)147 **pdf** *A. Ishikawa*

Decay of a bound muon to a bound electron
PoS(LeptonPhoton2019)148 **pdf** *M.J. Aslam, A. Czarnecki, A. Morozova and G. Zhang*

Search for Exotic Decays with NA62
PoS(LeptonPhoton2019)149 **pdf** *J. Jerhot and on behalf of the NA62 Collaboration*

Study of quark GTMDs for kaon in light-cone quark model
PoS(LeptonPhoton2019)150 **pdf** *S. Kaur and H. Dahiya*

Toward Realistic Implementations of Large Imaging Calorimeters
PoS(LeptonPhoton2019)151 **pdf** *K. Kawagoe, L.K. Emberger and on behalf of the CALICE Collaboration*

Exploring the structure of hadronic showers and hadronic energy reconstruction with highly granular calorimeters
PoS(LeptonPhoton2019)152 **pdf** *K. Kawagoe, R. Poeschl and on behalf of the CALICE Collaboration*

Search for Supersymmetry with a compressed mass spectrum in vector boson fusion topology with 1-lepton and 0-lepton final states in pp collisions at √s = 13 TeV with CMS
PoS(LeptonPhoton2019)155 **pdf** *P. Kumari, N. Dhingra, V. Bhatnagar, J. Singh and on behalf of the CMS collaboration*

Scintillation light production, propagation and detection in the 4-ton dual-phase LAr-TPC demonstrator (data analysis and simulations)
PoS(LeptonPhoton2019)156 **pdf** *C.F. Lastoria and On behalf of the DUNE Collaboration*

Searches for dark matter and dark energy produced in association with a jet with the ATLAS detector
PoS(LeptonPhoton2019)159 **pdf** *J.H. Lindon and on behalf of the ATLAS collaboration*

Observation of new charmonium (-like) decays
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