8th SYMPOSIUM ON LARGE TPCs FOR LOW-ENERGY RARE EVENT DETECTION

Monday, 5 December 2016 - Wednesday, 7 December 2016
Paris Diderot University

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The Quad: a general purpose modular readout system for TPCs
New developments of the spherical detector sensor
Session leader: A. Delbart
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Introduction

Corresponding Author: ioannis.giomataris@cea.fr

Neutrino physics

Corresponding Author: smirnov@mpi-hd.mpg.de

Neutrino1

Welcome

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Corresponding Author: ioannis.giomataris@cea.fr

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Corresponding Author: smirnov@mpi-hd.mpg.de

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Corresponding Author: schol@phy.duke.edu

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Corresponding Author: surmanr@union.edu

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Corresponding Author: schol@phy.duke.edu

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Corresponding Author: smirnov@mpi-hd.mpg.de

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Corresponding Author: francesc.monrabal@ific.uv.es

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Searches for Dark Matter at Colliders

Corresponding Author: gabriella.sciolla@cern.ch

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Progress towards barium daughter tagging in $^{136}Xe$ decay using single molecule fluorescence imaging

Corresponding Author: austin.mcdonald96@mavs.uta.edu

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Corresponding Author: schol@phy.duke.edu

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Neutrinos and Gravitational Waves from CCSNe

Corresponding Author: giulia.pagliaroli@lngs.infn.it

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Dark Matter at the crossroads: many constraints and some new ideas

Corresponding Author: marco.cirelli@cern.ch

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TREX-DM: a Low background Micromegas-TPC for low-mass WIMP searches

Corresponding Author: iguaz@unizar.es

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Corresponding Author: surmanr@union.edu

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Presupernova evolution and explosive nucleosynthesis of the progenitors of core collapse supernovae

Corresponding Author: marco@oa-roma.inaf.it

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Corresponding Author: francis.halzen@icecube.wisc.edu

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GEM-based TPC optically read out for R&D purposes

Corresponding Author: florian.maximilian.brunbauer@cern.ch

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Corresponding Author: thomas.papaevangelou@cern.ch

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Corresponding Author: richard_gaitskell@brown.edu

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NEWS experiment: search of ultra-light WIMPs

Corresponding Author: gilles.gerbier@queensu.ca

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Latest solar axion results and prospects

Corresponding Author: igor.irastorza@cern.ch
The WA105-3x1x1 m3 dual phase LAr-TPC demonstrator

Corresponding Author: sebastien.murphy@cern.ch

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Corresponding Author: m.wallbank@sheffield.ac.uk

MicroBooNE

Corresponding Author: mooney@bnl.gov

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Corresponding Author: marco.zito@cern.ch

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Corresponding Author: philippe.gros@llr.in2p3.fr
REST v2.0: A data analysis and simulation framework for micro-patterned readout detectors.

Corresponding Author: javier.galan.lacarra@cern.ch

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Corresponding Author: daniel.santos@lpsc.in2p3.fr

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Corresponding Author: kgiboni@sjtu.edu.cn

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Corresponding Author: henriques@gian.fis.uc.pt

Micromegas based muon telescopes for the ScanPyramids mission: performance and first results

Corresponding Author: david.attie@cea.fr
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Corresponding Author: saakyan@hep.ucl.ac.uk

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Corresponding Author: sekiya@icrr.u-tokyo.ac.jp

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Corresponding Author: n.spooner@sheffield.ac.uk

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Light Dark Matter search with NEWS-LSM detector

Corresponding Author: ali.dastgheibi-fard@cea.fr

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XEMIS: a single-phase liquid xenon TPC for 3gamma medical imaging

Corresponding Author: lucia.gallego-manzano@subatech.in2p3.fr

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On the possibility of positive-ion detection in high-pressure TPCs

Corresponding Author: lior.arazi@weizmann.ac.il

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ProtoDUNE Dual-Phase
Corresponding Author: vgalymov@ipnl.in2p3.fr

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**Microscopic simulation of Xenon-based Optical TPCs in the presence of molecular additives**

Corresponding Author: diego.gonzalez.diaz@cern.ch

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**The Quad: a general purpose modular readout system for TPCs**

Corresponding Author: vdgraaf@nikhef.nl

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Corresponding Author: xavier-francois.navick@cea.fr