

News from Collaboration Board

Atsuhiko Ochi

08/10/2020

RD51 collaboration meeting

New Member

▶ University of Hawaii, USA

TPC R&D Activities: GEM + pixel chip readout

2011-2013 μD^3 ($\sim 1\text{cm}^3$)

2013 $\sim 2.5\text{cm}^3$

2013 $\sim 20\text{cm}^3$

2014 $2 \times 60\text{cm}^3$

2015 $8 \times 40\text{cm}^3$

1st generation: proof of concept

2nd Generation: compact directional neutron detectors. currently operating @ KEK, Japan.

3rd generation: detectors w/ strip readout to enable relevant DM + neutrino sensitivity at reasonable cost. x 1000 scaleup!

CYGNUS HD1: designing (150 cm)

constructing now!

3rd Generation: Optimized for dark matter

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Current and Former Contributors

Igal Jaeger Postdoc
 Jared Yamaoka Postdoc
 Marc Rosen Mechanical Engineer
 Peter Lewis Postdoc
 John Kadyk
 Maurice Garcia-Schveres
 Michael Hedges Graduate Student
 Josh Murillo Graduate Student
 Thomas Thorpe Graduate Student
 Jeffrey Schueler Graduate Student
 Mayra Lopez-Thibodeaux (UC Berkeley Student)
 Kelsey Oliver-Mallory (UC Berkeley Student)
 Boon Seong Graduate Student
 Kamaloumaku Beamer Undergraduate Student (rotating group)
 Zachary Liptak Postdoc
 Sven E. Vahsen
 Majd Gehr

BERKELEY LAB
 UNIVERSITY OF HAWAII
 HANALEI

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News from Management Board

- Impact of the pandemic on the RD51 activities at CERN
 - Access to the CERN site (white list -> black list; age limit 65 -> 70 years)
 - [Safety rules and COVID-19 info](#)
 - [Obligatory quarantine](#)
 - CERN DG address on Thursday 8th of October at 13.30 CEST
- LHCC open session presentation and minutes -> Eraldo
 - [LHCC 143 open session agenda](#)
 - [RD51 LHCC status report](#)
 - [LHCC-143 minutes](#)
- DLC workshop summary and follow-up -> Eraldo
- Common projects - 2 new proposals ->Atsuhiko
- Organization of current RD51 CM and TPC workshop -> warm thanks to Diego and Paul
- RD51 mini week - CERN/Vidyo February 15th, 2021
- MPGD 2021 - Weizmann November 14 -19, 2021 - Committee meeting in 2 weeks

RD51 Common Project 2020

- ▶ Those two proposals are approved from this year for two years
 - Janvier Galan
 - Large area high-granularity segmented mesh microbulk for future rare event searches
 - Florian M. Brunbauer
 - Optical readout studies for negative ion TPCs

RD51 meetings in 2021

- RD51 mini-week
 - Week of 15th February, 2021
- Collaboration meeting
 - Will be held at same time of MPGD 2021 conference in Israel (date is not fixed ... 14th –19th November ??)
 - Another meeting will be held at CERN, but the date depend on the conference date.