

Session Program

9-11 Nov 2019



Magnificent CEvNS 2019

Theory/pheno/nuclear

The PIT
462 W Franklin St Chapel Hill, NC 27516 USA

Saturday 9 November

10:30

Theory/pheno/nuclear: Theory 1

Session | **Location:** The PIT, 462 W Franklin St Chapel Hill, NC 27516 USA | **Convener:** Joel Walker

10:30-10:50 **Nuclear form factors, nuclear structure, and neutron stars**

Speaker

Jorge Piekarewicz

10:50-11:10 **CEvNS in effective field theory**

Speaker

MARTIN HOFERICHTER

11:10-11:30 **Inelastic neutrino interactions on nuclei**

Speaker

Suhonen

11:30-11:50

CP violating effects in coherent elastic neutrino-nucleus scattering processes

Speaker

Valentina De Romeri

11:50-12:10

Neutrino non-standard interactions and signatures in CEvNS experiments

Speaker

Pilar Coloma

12:10

14:00

Theory/pheno/nuclear: Theory 2

Session | **Location:** The PIT, 462 W Franklin St Chapel Hill, NC 27516 USA | **Convener:** Carlo Giunti

14:00-14:20 **Searching for Dark Matter Signals COHERENT Way**

Speaker

Doojin Kim

14:20-14:40

Searching for Light Dark Matter with Fixed Target Neutrino Experiments

Speaker

Dr Patrick deNiverville

14:40-15:00

CEvNS in multi-ton scale dark matter experiments: Confronting vector and scalar interactions new physics signals

Speaker

Diego Aristizabal

15:00

Monday 11 November

14:10

Theory/pheno/nuclear

Session | **Location:** The PIT, 462 W Franklin St Chapel Hill, NC 27516 USA | **Convener:** Pilar Coloma

14:10-14:30 **Axion-like particle at CEvNS experiments**

Speaker

Shu Liao

14:30-14:50 **PREX/CREX Overview**

Speaker

Dr Juliette Mammei

14:50-15:10 **Measurement of the weak-mixing angle with CEvNS**

Speaker

Matteo Cadeddu

15:10-15:30 **Coherent elastic neutrino-atom scattering**

Speaker

Francesca Dordei

15:30-15:50 **Elucidating the electromagnetic properties of neutrinos with CEvNS**

Speaker

Dr Carlo Giunti

15:50

16:20

Theory/pheno/nuclear

Session | **Location:** The PIT, 462 W Franklin St Chapel Hill, NC 27516 USA | **Convener:** Bhaskar Dutta

16:20-16:40

Neutrino transition magnetic moments and sterile neutrinos from CEvNS

Speaker

Dimitrios Papoulias

16:40-17:00

Measuring the coherent elastic neutrino-nucleus scattering with an high intensity ^{51}Cr radioactive source

Speaker

Dr Lea Di Noto

17:00-17:20 **Neutrino Physics Opportunities at the J-PARC MLF**

Speaker

Johnathon Jordan

17:20-17:40 **Reactor antineutrino fluxes and CEvNS**

Speaker

Patrick Huber

17:40