

Magnificent CEvNS 2020

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Cyberspace



Book of Abstracts

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COHERENT

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New COHERENT Results

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First constraints on coherent elastic neutrino nucleus scattering by CONUS

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Invited Talk

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Probing neutrino quantum decoherence at reactor experiments

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Axionlike particles searches in nuclear reactor experiments

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Measuring the weak mixing angle with reactor neutrino experiments

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SNS Beams

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Lessons learned from CCM120

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Feasibility of a Liquid Xenon Detector for Reactor Neutrino Detection via CEvNS

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A xenon-doped argon ionization detector for CEvNS and low-mass dark matter search

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Reactor CEvNS with Noble Liquid Bubble Chambers

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BULLKID: Low-threshold Kinetic Inductance Detectors for neutrino and dark matter searches

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Coherent elastic and inelastic neutrino-nucleus scattering within many-body nuclear theory approach

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Coherent elastic neutrino-nucleus scattering: EFT analysis and nuclear responses

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Flavor dependence and radiative corrections in CEvNS

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Status of the RED-100 experiment

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Lepton Magnetic Moments in SUSY $L\text{-}L$ Model in Light of CEvNS and LHC data

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Neutrino NSI and Global Analyses / Axion-like Particles in the Laboratory

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Statistical Analysis of the COHERENT Data

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Study of the ionization efficiency for nuclear recoils in pure crystals

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Design of keV-scale neutron sources using Fe and Sc

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The CRAB project: Calibration at the 100 eV scale using neutron capture-induced nuclear recoils

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An overview of the GADMC and its neutrino physics program

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Studying neutrino-argon charged-current interactions with the COHERENT liquid argon detector

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Neutrino floors

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SuperCDMS + QF measurements

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COHERENT LAr

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Dark Matter Searches at Stopped-Pion CEvNS Experiments

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Astronomy in the Lab: Supernova Forecast and Origin of Super-massive Black Holes

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Status of the CYGNUS Directional Recoil Observatory Project

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Searches for new physics with a stopped-pion source at the Fermilab accelerator complex

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Skipper CCD for the detection of nuclear-reactor neutrinos

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Magnetic Microcalorimeters for CEvNS Detection: Fast Cryogenic Detectors with Phonon Pulse Shape Discrimination

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RES-NOVA: archaeological Pb observatory for astrophysical neutrino sources

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Cryogenic Diamond and SiC Particle Detectors

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Summary: Experiments

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Summary Theory

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Measuring the Weak Charge Radius of 208-Pb with PREX-II

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Poster F: First Measurement of CEvNS on a Liquid Argon Target from the COHERNET Collaboration

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Poster H - A Platform for Characterizing the Thermodynamic Stability and Proportional Scintillation Signals of Argon-Xenon Mixtures

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Phonon-mediated KID based detectors for CEvNS

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