

Neutrinos

Sub-GeV Atmospheric Neutrinos and CP-Violation in DUNE

Kevin J. Kelly, Pedro A. N. Machado, Ivan Martinez-Soler, Stephen J. Parke, Yuber F. Perez-Gonzalez

I  THs

Dark Neutrino Portal to Explain MiniBooNE excess

Enrico Bertuzzo, Sudip Jana, Pedro A. N. Machado, Renata Zukanovich Funchal

The Short-Baseline Neutrino Program at Fermilab

Pedro A. N. Machado, Ornella Palamara, David W. Schmitz

I  EXPs

Updated global analysis of neutrino oscillations in the presence of eV-scale sterile neutrinos

Mona Dentler, Álvaro Hernández-Cabezudo, Joachim Kopp, Pedro A. N. Machado, Michele Maltoni, Ivan Martinez-Soler, Thomas Schwetz

Current interests:

$\sin^2\theta_w$ at DUNE (de Gouvea, M, Perez-Gonzalez, Tabrizi)

Measuring Δm^2_{21} in T2K (Parke, Perez-Gonzalez, Zukanovich-Funchal)

Secret project: A new neutrino event generator, fully TH/Chicagoland based!

BSM

Hunting On- and Off-Axis for Light Dark Matter with DUNE-PRISM

Valentina De Romeri, Kevin J. Kelly, Pedro A.N. Machado

Scalar Democracy

Christopher T. Hill, Pedro A. N. Machado, Anders E. Thomsen, Jessica Turner

I  visitors

Current interests:

H0 tension, neutrino masses and ultralight scalars (Chacko, Dev, Krnjaic, M)