

IPM school and conference on Particle Physics (IPP15): Neutrino physics, dark matter and B-physics

School of physics, IPM, Tehran, Iran
22-27 September 2015 (31st Shahrivar-5th Mehr 1394)

Title of Talks

| School | |
|----------------------------|---|
| E. Akhmedov | Neutrino physics -- present status and theoretical issues. |
| A. Romanino | Beyond the Standard Model. |
| D. Meloni | Grand unification. |
| M. Tytgat | Lectures on dark matter. |
| A. Ereditato | Special talk (30'+15')-The international neutrino program at Fermilab. |
| Workshop | |
| E. Akhmedov | Another look at collective neutrino oscillations. |
| D. Meloni | Bimaximal neutrino mixing and GUT's. |
| A. Romanino | General considerations on lepton mixing. |
| C. Hagedorn | Predicting low and high energy phases in the lepton sector. |
| G. Zaharijas | Indirect searches for dark matter. |
| N. Bozorgnia | The dark matter distribution as predicted by cosmological simulations. |
| M. Tytgat | Gamma rays from heavy minimal dark matter. |
| J. Heeck | B-physics and other anomalies as hints for new physics. |
| A. Khan | Non-standard neutrino interactions and the reactor neutrino experiments. |
| I. Turan | Constraining Dark Photon via Neutrino-Electron Scattering Experiments. |
| S. Agarwalla | Can Daya Bay Probe Non-Standard Neutrino Interactions? |
| S. Sachi Chatterjee | Exploring Flavor-Dependent Long-Range Forces in Long-Baseline Neutrino Oscillation Experiments. |
| P. Mehta | Non-standard neutrino oscillations. |
| P. Bakhti | A terrestrial test for exotic solution of solar neutrino anomaly. |
| A. Ioannisyan | Scanning the Earth with solar neutrinos at future very large neutrino detectors. |
| A.M. Guler | SHIP: Search for Hidden Particles at CERN. |
| Y. Pezeshkian | Pentagon arrangement for Alborz-I observatory. |
| B. Dev | Hints of New Physics in the Resonance Searches at the LHC. |
| A. Rezaei | Self Interacting Vector Dark Matter. |
| Q. Exirifard | On the deviation from the Riemann Geometry as MOND/Dark Matter. |