

# SFB-Days on July 9 and 10 at MPI für Kernphysik, Heidelberg

## Thursday, July 9, MPIK lecture hall:

11:15-12:15: Georg Raffelt: Supernova Neutrinos

- Lunch Break -

13:45-14:15 Guido Drexlin: Status of the KATRIN experiment

14:15-14:45 Denize Kalempa: Modelling of the gas dynamics of a windowless gaseous tritium source

14:45-15:15 Sergey Eliseev: Neutrino Physics with Penning Traps

- Coffee Break -

15:45-16:15 Evgeny Akhmedov: Neutrino Oscillations from Quantum Field Theory

16:15-16:45 Alexander Merle: Why the GSI anomaly cannot be explained by Quantum Beats

16:45-17:15 German Hermann: Very-High-Energy Gamma-Ray Astrophysics with H.E.S.S.

19:00: Joint dinner (restaurant in Heidelberg)

## Friday, July 10, MPIK lecture hall:

### **Session 1 (Chair: M. Hofmann):**

09:00 - 09:30: A. Gütlein: Detector Development for the Coherent Neutrino Nucleus Scattering

09:30 - 10:00: M. Wurm: Measurements of the Scattering Lengths in Organic Scintillators

10:00 - 10:30: N. Haag: Measurement of the Anti- $\nu$  spectrum of U-238

- Coffee Break -

### **Session 2 (Chair: C. Langbrandtner):**

11:00 - 11:30: M. Knapp: Construction of the GERDA Cherenkov Muon Veto Detector

11:30 - 12:00: D. Greiner: Construction of the Double Chooz Muon Veto Detector

12:00 - 12:30: Ch. Aberle: Optical properties of the Double Chooz scintillators

- Lunch Break -

### **Session 3 (Chair: A. Merle):**

14:00 - 14:30: A. Adulpravitchai: Confronting Flavour Symmetries and Extended Scalar Sectors with Lepton Flavour Violation Phenomenology

14:30 - 15:00: D. Fang: Description of the double beta decay in deformed nuclei with realistic forces

- Coffee Break -

### **Session 4 (Chair: W. Käfer):**

15:30 - 16:00: H. Kluck: Investigation of the neutron background within the EDELWEISS dark matter search

16:00 - 16:30: M. Schloesser: Systematic effects in Laser Raman Measurements for KATRIN

16:30 - 17:00: P. Renschler: Simulation of electron incident on silicon for KATRIN