Nuclear Excited States Studied by Proton Scattering with a High-Resolution Magnetic Spectrometer

Topical Lecture Week with Prof. Atsushi Tamii

Date: 15.04.2024-19.04.2024

Monday, April 15
09:00 - 09:30 Introduction
09:30 - 10:30 Lecture 1: *Nuclear Excited States, Giant Resonances (overview)*
10:30 - 11:00 Coffee break
11:00 - 12:30 Lecture 2: *Experiments Using High-Resolution Spectrometer Grand Raiden*
12:30 - 12:45 Group picture
12:45 - 14:00 Lunch

Tuesday, April 16
09:00 - 10:30 Lecture 3: *Electric Response of Nuclei, Sum Rules*
10:30 - 11:00 Coffee break
11:00 - 12:30 Exercise 1: *Spectrometer Data Analysis, Startup, 1D/2D Histograms, Gate*
12:30 - 14:00 Lunch

18:30 Social Dinner

Wednesday, April 17
09:00 - 10:30 Lecture 4: *Nuclear Equation of State, Neutron Stars*
10:30 - 11:00 Coffee break
11:00 - 12:30 Exercise 2: *Calibrations, Excitation Energy, Cross Section*
12:30 - 14:00 Lunch

Thursday, April 18
09:00 - 10:30 Lecture 5: *Photo Reaction of Ultra-High-Energy Cosmic Rays*
10:30 - 11:00 Coffee break
11:00 - 12:30 Exercise 3: *Coincidence Analysis, Efficiency, Branching Ratio*
12:30 - 14:00 Lunch

Friday, April 19
09:00 - 10:30 Lecture 6: *Spin-Magnetic Response of Nuclei, n-p Correlation*
10:30 - 11:00 Coffee break
11:00 - 12:30 Lecture 7: *Fine Structure, Supplements, Summary*
12:30 - 14:00 Lunch