

Low-energy strangeness studies at DAΦNE and J-PARC

19-20 December 2018, LNF-INFN, Frascati

Program:

Wednesday 19 December 2018

Chair: Magdalena Skurzok

11:30 – 11:45 Welcome (Carlo Guaraldo)

11:45 – 12:15 Introduction to AMADEUS (Raffaele Del Grande)

12:15 – 12:40 *Coffee break*

12:40 – 13:30 Title TBA (Emiko Hiyama)

13:30 – 15:00 *Lunch*

Chair: Marco Miliucci

15:00 – 15:30 Search for eta-mesic bound states with WASA-at-COSY (Magdalena Skurzok)

15:30 – 16:00 K^- multi-nucleon cross sections and bound states in Λp and $\Sigma^0 p$ channels (Raffaele Del Grande)

16:00 – 16:30 *Coffee break*

Chair: Raffaele Del Grande

16:30 – 17:00 Introduction to the physic case of SIDDHARTA (Florin Sirghi)

17:00 – 17:30 Silicon drift detectors for high precision kaonic atom experiments: SIDDHARTA-2 (Marco Miliucci)

17:30 – 18.15 Outline of the ongoing experimental searches and future perspectives in K -nuclear interactions (Kristian Piscicchia)

20.00 - Dinner

Thursday 20 December 2018

Chair: Emiko Hiyama

10:00 – 10:30 Beyond kaonic deuterium, other possible experimental searches related to SIDDHARTA-2 (Florin Sirghi)

10:30 – 11:00 Characterization of a High Resolution Von Hamos Spectrometer with HAPG Crystal for Extended Sources; a New Opportunity for High Precision Nuclear Physics Measurements (Alessandro Scordo)

11:00 – 11:30 *Coffee break*

11:30 – 12:00 K^- four-nucleon absorption cross section in the Λt final state (Magdalena Skurzok)

12.00 – 14.00 *Lunch*

Chair: Raffaele Del Grande

14:00 – 14:45 X and gamma rays spectroscopy, experimental probes for Quantum Mechanics foundations (Kristian Piscicchia)

14:45 – 15:15 VIP-2 updated results on PEP violation probability (Luca De Paolis)

15:15 – 16:15 Crucial theoretical aspects to be addressed in the future nuclear strangeness physics experiments (Emiko Hiyama)

16:15 – 17.30 Discussion

17:30 Closing