

PRE - PAC WORKSHOP OF AGATA@LNL

INFN, Laboratori Nazionali di Legnaro May 13-14, 2024

SCIENTIFIC PROGRAMME

Monday, May 13th, 2024

Monday, May 13th, 2024			
13:00 - 14:00	Registration		
14:00 - 14:10	Welcome Address 10'		
	Speaker: Faïçal Azaiez (INFN LNL Director)		
14:10 - 15:50	Session: AGATA at LNL		
14:10 – 14:40	Accelerator Status 30' Speaker: Enrico Fagotti		
14:40 – 15:00	EXOTIC Status and proposed commissioning 20' Speaker: Sara Pigliapoco		
15:00 – 15:20	Status of the campaign 20' Speaker: Jose Javier Valiente Dobón		
15:20 – 15:40	Overviews of the LoIs for the 5 th Pre-PAC 20' Speaker: Magda Zielińska		
15:40 – 15:50	EURO-LABS support 10' Speaker: Tommaso Marchi		
15:50 - 16:20	Coffee break		
16:20 – 18.00	Session: Lol 1		
16:20	Shape coexistence in 82 Se and its relevance in the 82 Se \rightarrow 82 Kr $0v\beta\beta$ decay $20'$ Speaker: N. Sensharma (via zoom)		
16:40	Nuclear Shape Coexistence in the 0vββ Parent 116Cd 20'		

Speaker:

17:00 **Development of Self-calibration technique for AGATA via Coulomb excitation** 20' Speaker: S. Chen (via zoom)

M. Siciliano (via zoom)

17:20 Study of Shape coexistence and Triaxial deformation in Cr isotopes via lifetime measurements 20'

Speaker: J. Pellumaj

17:40 Search for the y decay of the narrow near-threshold resonance in ¹¹B 20'

Speaker: G. Corbari

20:00 Dinner

Tuesday, May 14th, 2023

9:30 - 11:10 **Session: Lol 2**

9:30 Direct measurement of quadrupole and octupole deformation of 0vββ candidate daughter ¹⁵⁰Sm via Coulomb excitation 20'

Speaker: E. Wang (via zoom)

9:50 Superallowed ¹⁰C β-decay branching ratio measurement with high-count rate: a revised edition of Exp. 22.72 20'

Speaker: Y. Son (via zoom)

10:10 Colossal Mirror Energy Differences at A=36: quest for the 0⁺₃ state in ³⁶S 20'

Speaker: L. Zago

10:30 Understanding nuclear isospin by means of the Isobaric Analogue State and the Isobaric Anti Analogue State around A~60 20'

Speaker: P. Aguilera

10:50 At-rest (near) Yrast spectroscopy in the 78Ni region with the deuteron induced

fission of ²³⁸U 20'

Speaker: F. Didierjean

11:10 – 11:40 **Coffee break**

11:40 – 13:20 Session: Perspectives with uranium beams

11:40 Production yields of neutron-rich heavy nuclei in the ²³⁸U+¹²⁴Sn multinucleon transfer reaction 20'

Speaker: L. Corradi

12:00 Synthesis of heavy and superheavy neutron-rich nuclei in multinucleon transfer reactions at grazing angle using Uranium beams 20'

Speaker: B. Sulignano (via zoom)

12:20 Pushing the limits of γ-ray spectroscopy of neutron rich fission fragments with AGATA+PRISMA coupling 20'

Speaker: J. Dudouet (via zoom)

12:40 Lifetimes of excited states along and around the N=50 shell closure 20'

Speaker: A. Gottardo

13:00 Conclusions and general discussion 20'	
13:20 - 14:30 Lunch	
After 14:30 – possible visit of experimental hall (if there are people interested)	