

Scientific Workshop on “NU-BALL 2: Results from the first experimental campaign and prospects for future exploitation”

mercredi 28 novembre 2018 - vendredi 30 novembre 2018

Joint Research Center - European Commission

Programme Scientifique

Nuball 2 - Scientific Program

Conference Building/JRC Geel, 28-30 November 2018

Wednesday, 28 November 2018

8:30 – 9:00 Registration

9:00 – 10:00 Opening session

Welcome (S. Oberstedt, J.N. Wilson, P. Regan)

"JRC Geel and its Open Access facilities" (S. Oberstedt)

10:00 – 11:00 Session I (Chair: R. Lozeva)

"General introduction to the nu-Ball spectrometer" (M. Lebois)

"Status of the data analysis for the experiment nu ball+PARIS detector" (M. Ciemala)

11:00 - 11:30 Coffee Break

11:30 – 12:30 Session II (Chair: Th. Kröll)

"Progress on data analysis from the N-SI-105 and N-SI-108 experiments" (K. Stoychev)

"Feeding of low-energy structures by GDR decay using nu-ball/PARIS" (M. Ciemala)

12:30 – 14:00 Lunch

14:00 – 16:00 Session III (Chair: L. Fraile)

"Lifetime measurements with nu-ball" (M. Rudigier)

"Lifetime measurements in $^{164}\text{Dy}/^{166}\text{Dy}$ with nu-ball" (Rh. Canavan)

"Measurement of the lifetimes of excited states in neutron-rich cerium isotopes using FATIMA coupled to Gammasphere" (G. Fernández Martínez)

"Fast-timing measurements and the African Lanthanum Bromide Array at iThemba LABS " P. Jones

16:00 - 16:30 Coffee Break

16:30 – 18:30 Session IV (Chair:A. Blazhev)

"Perspectives with the FATIMA array" (Zs. Podolyak)

"Progress and future plans with RoSPHERE and related Hybrid arrays" (Nicu Marginean)

"Plans for the use of the clover detectors in Jurogam3 at Jyvaskyla in 2019-2020" (P. Ruotsalainen)

"Fission multiplicity and prompt decay heat measurements with STEFF" (P. Davies)

18:30 Closure, day 1

19:00 – 22:00 Workshop Reception

22:00 End

Thursday, 29 November 2018

8:30 – 10:30 Session V (Chair: S. Leoni)

"Study of Kr isotopes" (R.-B. Gerst)

"Lifetime measurements beyond ^{132}Sn with nuball" (G. Häfner)

"Spectroscopic studies of light fission fragments produced in the $^{238}\text{U}(n,f)$ reaction " (L. Iskra)

"Prompt fission neutrons and gamma-rays" (J.N. Wilson)

"Spectroscopy in the ^{78}Ni region using the $^{232}\text{Th}(n,f)$ reaction" (D. Thisse)

10:30 – 11:00 Coffee Break

11:00 – 12:30 Session VI (Chair: M. Rudigier)

"Target preparation for nuclear physics experiments" (G. Sibbens)

"Study of the ^{238}U shape isomer decay with nu-ball" (N. Jovancevic)

"Prospects for the experiment on double gamma-decay in ^{72}Ge with nu-ball 2" (A. Dragic)

12:30 – 14:00 Lunch

14:00 – 15:30 Session VII (Chair: A. Korgul)

"Plans for the neutron standards set-up at NPL" (M. Bunce)

"The FASTER data acquisition system" (D. Etasse)

"The integration of FASTER into Narval" (E. Legay)

16:00 – 16:30 Coffee Break

16:30 – 18:00 Session VIII (Chair: P. Jones)

Discussions on data analysis challenges

18:00 Closure, day 2

19:30 – 23:00 Reception & Workshop Dinner (Le Flore)

23:00 End

Friday, 30 November 2018

8:30 – 10:30 Session IX (Chair: A. Maj)

"The fission code GEF and nuclear data needs" (K.-H. Schmidt)

"Perspectives with nu-ball2" (S. Leoni)

"Perspectives with nu-ball2" (B. Fornal)

"Picosecond lifetime measurements with nu-ball applying DPM" (Th. Kröll)

10:30-11:00 Coffee Break

11:00 – 12:30 Session X (Chair: N. Marginean)

"Physics possibilities with coupling nu-ball 2 clover detectors with the PARIS array" (A. Maj)

"Gamma-ray spectroscopy after slow neutron induced reactions: the FIPPS instrument at ILL" (C. Michelagnoli)

Closing address (J.N. Wilson, P. Regan, S. Oberstedt)

12:30 – 14:00 Lunch

14:00 – 16:00 Guided tour through the laboratories

Laboratory visits (GELINA, MONNET)

16:00 Closure, day 3

16:00 End of Workshop