4th AGATA-GRETINA/GRETA Tracking Arrays Collaboration Meeting

November 20, 2024 - November 22, 2024

ANL, Physics Division B203

Scientific Program

Preliminary programm

Overviews and Updates on AGATA and GRETA Projects/ Operations

AGATA project status **Emmanuel Clement** (GANIL, France)
GRETA project status **Paul Fallon** (LBNL, USA)
GRETA System assembly and performance **Heather Crawford** (LBNL, USA)
GRETA electronics **Chris Campbell** (LBNL, USA)
Status of the AGATA electronics **Andres Gadea** (IFIC, Spain)- TBC
AGATA computing model **Olivier Stezowski** (IP2I Lyon, France)
GRETA computing model **Mario Cromaz** (LBNL, USA)
GRETINA @FRIB status. **Stephen Gillespie** (FRIB, USA)
AGATA@Legnaro status **Alain Goadsuff** (LNL Legnaro, Italy)

Tracking and Signal Decomposition/Processing

PSA R&D with AGATA **Fraser Holloway** (University of Liverpool, UK)
Decomp AI/ML status **Mario Cromaz** (LBNL, USA)
Tracking developments with AI/ML **Thomas Lynn** (ANL, USA)
Pair production implementation in AFT **Torben Lauritsen** (ANL, USA)
Tracking status and prospectives in AGATA **Waely Lopez-Martens** (IJClab, France)- TBC

Analysis of Array Performance and Characteristics Data

AGATA detector characterization **Dan Judson** (University of Liverpool, UK)
N-damage status, characterization and performance **Chris Everett** (University of Liverpool, UK)
Neutron damage correction for GRETINA **Marco Siciliano** (ANL, USA)
Building a better basis: performance with NN TBC
A self-calibration method for gamma-ray energy tracking arrays **Stefanos Paschalis** (University of York, UK)
Simulation status and benchmarking with real data **Lew Riley** (Ursinus, USA)
Simulation and benchmarking efficiency in AGATA TBC
Recent achievements in Analysis techniques and software eco-system in AGATA **Olivier Stezowski** (IP2I Lyon, France)
New developments for the data analysis: QC and HK analysis, Angular distribution and linear polarization **Torben Lauritsen** (ANL, USA)
Linear polarization analysis with fast beam data **Peter Farris** (FRIB, USA)

Developments in Detector Technologies

Gamma-ray tracking applications, new Ge detector technologies TBD

Discussion and Concluding Remarks