



IAEA

International Atomic Energy Agency

Atoms for Peace and Development

Consultants' Meeting on

Total Absorption γ -Ray Spectroscopy (TAGS)

IAEA Headquarters, Vienna, Austria

19-21 February 2018

Meeting Room VIC MOE26

Preliminary AGENDA

Monday, 19 February

12:30 – 14:00 Lunch

08:30 – 09:00 Registration (IAEA Registration desk, Gate 1)

09:00 - 09:30 Opening Session

Welcoming address and Introduction – P. Dimitriou, IAEA/NDS

Election of Chairman and Rapporteur

Adoption of Agenda/Administrative matters

09:30 – 18:00 Presentations by participants (~ 30 min each)

Session 1: Measurements

1. K. Rykaczewski, 'Update on the measurements, published results and future plans of MTAS collaboration (short-term and long-term)'
2. J. Tain, 'Data analysis methodology for segmented TAGS and future beta-strength measurements for astrophysics (r-process)'
3. A. Algora, 'Valencia TAGS measurements: some recent results and future plans'
4. Fallot, 'Recent TAGS measurements and Perspectives at the ALTO facility'
5. F. Kondev, 'Capabilities and future plans at ANL regarding decay spectroscopy of fission products'
6. G. Mukherjee, 'Present status and future possibilities of gamma-gamma coincidence and singles as well as total absorption measurements at VECC'
7. J. Tain, 'TAGS for P_n measurements and update on gamma/neutron competition'

Session 2: Impact of TAGS data [decay heat, anti-neutrino spectra, beta-delayed neutrons]

8. H. Yoshida, 'Several Learnings from Summation Calculations of Reactor Decay Heat and Antineutrino Spectra'
9. A. Sonzogni, 'Analysis of the latest Daya Bay antineutrino data'
10. M. Fallot, 'Summation calculations for innovative fuels and reactor designs and impact of TAGS data on decay heat and anti-neutrino spectra'
11. P. Dimitriou (*if time permits*), 'Beta-delayed neutrons: precursor database and impact on total delayed neutron yields'

Session 3: Assessment of decay data

12. A. Nichols, 'Total Absorption Gamma-ray Spectroscopy - Radionuclide Assessment'
13. F. Kondev, 'Assessment of decay data for ^{91}Sr , ^{97}Zr , ^{129}Sb , ^{132}I , ^{145}Pr , ^{149}Nd '
14. T. Yoshida, 'TAGS Measurement Priority Required from Thorium Cycle and ^{245}Cm '
15. A. Algora, 'Study of the need for TAGS measurements for the ^{149}Ce , $^{136,137}\text{Te}$, $^{132,132m}\text{Sn}$, ^{107}Mo , ^{105}Nb , ^{98}Zr decays'

Coffee breaks as needed

Tuesday, 20 February

12:30 – 14:00 Lunch

09:00 - 17:30 Round table discussions

- New TAGS measurements and results for beta feedings (published and unpublished since the last meeting in 2014)
- Current status of decay data libraries with regard to TAGS data
- Impact of recent TAGS data (made available since last meeting in 2014) on applications: decay heat calculations, anti-neutrino spectra, beta-delayed neutrons
- New priority tables for TAGS & high-resolution gamma-ray spectroscopy measurements, and/or new data evaluations based on the UKAEA tables of Fleming & Sublet 2015
- TAGS facilities and future perspectives
- Repository of measured decay heat data

Coffee breaks as needed

19:00 Dinner at a restaurant (see separate information sheet)

Wednesday, 21 February

09:00 - 13:00 Round table discussion (cont'd) and Drafting of the Summary Report

13:00 Closing of the meeting

Coffee break as needed