


# European NSDD Organization Effort 2015-2017

## Recommendation of 21<sup>st</sup> NSDD Meeting 2015:

European NSDD members and advisors should hold a special meeting to discuss European NSDD shortfall



**A Workshop for Nuclear Structure and Decay Data Evaluation in Europe**

Cd102	Cd103	Cd104	Cd105	Cd106	Cd107	Cd108	Cd109	Cd110	Cd111	Cd112	Cd113	Cd114	Cd115	Cd116	Cd117	Cd118	Cd119	Cd120	Cd121	Cd122
5.5 M	7.3 M	57.7 M	55.5 M	1.25	6.51 H	0.89	461.4 D	12.49	12.80	24.13	12.22	28.75	25.46 H	7.49	2.49 H	50.3 M	2.69 M	50.80 S	15.5 S	524 S
Ag101	Ag102	Ag103	Ag104	Ag105	Ag106	Ag107	Ag108	Ag109	Ag110	Ag111	Ag112	Ag113	Ag114	Ag115	Ag116	Ag117	Ag118	Ag119	Ag120	Ag121
1.1 M	12.9 M	65.7 M	69.2 M	41.29 D	25.96 M	51.859	2.57 M	48.161	24.6 S	7.45 D	51.30 H	5.37 H	4.6 S	20.0 M	2.68 M	72.8 S	5.76 S	2.1 S	1.25 S	0.78 S
Pd100	Pd101	Pd102	Pd103	Pd104	Pd105	Pd106	Pd107	Pd108	Pd109	Pd110	Pd111	Pd112	Pd113	Pd114	Pd115	Pd116	Pd117	Pd118	Pd119	Pd120
0.63 D	847 H	1.02	16.90 D	11.14	22.35	27.35	630000 Y	26.46	15.702 H	11.72	23.4 M	21.05 H	95 S	2.42 M	2.5 S	11.8 S	4.3 S	1.9 S	0.92 S	0.5 S
Rh99	Rh100	Rh101	Rh102	Rh103	Rh104	Rh105	Rh106	Rh107	Rh108	Rh109	Rh110	Rh111	Rh112	Rh113	Rh114	Rh115	Rh116	Rh117	Rh118	Rh119
6.1 D	20.8 H	5.5 Y	207 D	1.02	42.3 S	35.36 H	29.80 S	21.7 M	16.8 S	80 S	52 S	11 S	54.5 S	2.80 S	1.85 S	0.99 S	0.68 S	0.44 S	51.90 NS	51.90 NS

## Workshop Program

### Program

09'00 - 11'00 (Chairperson: P. Dimitriou)

**J. Timár** / Opening remarks

**Zs. Fülöp** / Introduction of Atomki [-talk]

**P. Dimitriou** / Nuclear Data Activities in Europe (from the IAEA perspective) [-talk]

**A. Negret** / ENSDF evaluation activities at IFIN-HH [-talk]

**S. Ertürk** / Up to Date Evaluation on <sup>173</sup>Lu, <sup>173</sup>Yb, <sup>173</sup>Hy and <sup>173</sup>Ho (absent)

**T.J. Mertzimekis** / The nuclear moments database [-talk]

**D. Balabanski** / Photonuclear Data at ELI-NP [-talk]

**S. Pascu** / RoSphere, the gamma array at the Tandem accelerator of IFIN-HH [-talk]

11'00 - 11'30 Coffee Break

11'30 - 12'30 Round Table Discussion I. (Chairperson: D. Balabanski)

12'30 - 14'00 Buffet Lunch at ATOMKI

14'00 - 16'00 Round Table discussion II. (Chairperson: T.J. Mertzimekis)

16'00 - 16'30 Coffee Break

16'30 - 18'30 Round Table discussion III. (Chairperson: A. Negret)

19:00 - Workshop dinner in a local restaurant

MTA Atomki, Debrecen, Jan. 29, 2016

Presented: Hungary, Romania, Greece  
Activities also in Bulgaria and Turkey



# Meeting recommendations

- Liaise with ESF Nuclear Physics European Collaboration Committee (NuPECC) to promote NSDD evaluation in Europe
  - Document sent to all NuPECC members (IAEA)
  - IAEA staff presentation at NuPECC meeting (Oct.2016)
  - IAEA Contribution to NuPECC Long Range Plan ACCEPTED
- Promotion of European NSDD at conferences
  - European NSDD effort presented at ND2016 (Negret), INPC2016 (Dimitriou), UK CARM2016 (Dimitriou)
- Expand European NSDD Consortium
  - Aim to create an inclusive European NSDD Consortium to enhance support across Europe – MoU adapted for extended participation

# NuPECC 2017 Long Range Plan – to be launched

## Applications and societal benefits – WG6

NuPECC Liaisons: Ioan Ursu, Jan Dobeš, Nicolas Alamanos ; Conveners: Marco Durante – Alain Letourneau

WG6 members : Eduardo Alves, Christoph Bert, Adrien Bidaud, Nicola Colonna, Daniel Cussol, Sergey Dmitirev, Xavier Doligez, Tobias Engert, Gilles de France, Carlos Granja, Ferid Haddad, Laura Harkness-Brennan, Sebastien Incerti, Jacek Jagielski, Maelle Kerveno, Ulli Koester, Franco Lucarelli, Ismael Martel, Christian Morel, Dénes Lajos Nagy, Dana Niculae, Alan Owens, Katia Parodi, Daniel Primetzhofer, Paddy Regan, Michael Scholz, Thomas Stöhlker, Zita Szikszai, Olof Tengblad, Vladimir Wagner

The compilation, evaluation and dissemination of nuclear data are laborious tasks that rely heavily on contributions from experts in both the basic and applied science research communities. Efforts carried out at national and international levels benefit from the coordination provided by international organisations such as the International Atomic Energy Agency (IAEA) in Vienna and the Nuclear Energy Agency of the Organisation for Economic Co-operation and Development (NEA-OECD) in Paris. The development and maintenance of nuclear data libraries, and dissemination of nuclear data to various user communities constitute major goals of the international networks associated with these agencies: the Nuclear Reaction Data Centres Network (NRDC/IAEA), the Nuclear Structure and Decay Data evaluators (NSDD/IAEA), and NEA Data Bank. The challenge facing the nuclear research and applications communities is to ensure that the new measurements performed in the European facilities are

incorporated promptly into the available databases and are therefore used in both reaction modelling and evaluations that are important for energy and non-energy applications.

### 6. Summary and recommendations

- *Support activities related to the compilation, evaluation and dissemination of nuclear structure and decay data in Europe*
- *Maintain a high level of expertise in nuclear data evaluation to meet the requirements of a continuously developing European research and applied sciences landscape through targeted training and mentorship schemes*