The Abdus Salam International Centre for Theoretical Physics

Joint ICTP-IAEA Workshop on Nuclear Reaction Data for Advanced Reactor Technologies

Organizer(s): Directors: A. Mengoni, A. Stanculescu. Local Organizer: C. Tuniz
Trieste - Italy, 19 - 30 May 2008

Final programme

Monday, 19 May 2008

08:30 - 10:00 (Room: Adriatico Guest House - Giambiagi Lecture Hall Area (Lower Level 1))
Registration and Administrative Formalities

10:00 - 10:30 --- Coffee break ---

10:30 - 12:00 **Welcome and Introduction by the Workshop Directors**

12:00 - 14:00 --- Lunch break ---

14:00 - 15:30 **A. Stanculescu** / *IAEA, Vienna, Austria*
Advanced Fast Reactors

15:30 - 16:00 --- Coffee break ---

16:00 - 17:30 **J. Grassberger/K. McLaughlin** / *ICTP, Trieste/IAEA, Vienna, Austria*
Introduction to computational facilities and computer software

Tuesday, 20 May 2008

08:30 - 10:00 **P. Schillebeeckx** / *EC-JRC-IRMM, Neutron Physics Unit, Geel, Belgium*
Cross Section Measurements and Uncertainties of Cross Section Data

10:00 - 10:30 --- Coffee Break ---

10:30 - 12:00	**N. Colonna** / *INFN, Sezione di Bari, Bari, ITALY* **Fission Measurements**
12:00 - 14:00	--- Lunch Break ---
14:00 - 15:30	**J. Kendall** / *Global Virtual LLC, Prescott, USA* **High Temperature Advanced Reactors**
15:30 - 16:00	--- Coffee Break ---
16:00 - 17:30	(Room: Adriatico Guest House Informatics Lab.) **P. Schillebeeckx** / *EC-JRC-IRMM, Neutron Physics Unit, Geel, Belgium* **Exercises**

Wednesday, 21 May 2008

08:30 - 10:00	**P. Schillebeeckx** / *EC-JRC-IRMM, Neutron Physics Unit, Geel, Belgium* **Cross Section Measurements and Uncertainties of Cross Section Data**
10:00 - 10:30	--- Coffee Break ---
10:30 - 12:00	**N. Colonna** / *INFN, Sezione di Bari, Bari, ITALY* **Fission Measurements**
12:00 - 14:00	--- Lunch Break ---
14:00 - 15:30	**J. Kendall** / *Global Virtual LLC, Prescott, USA* **High Temperature Advanced Reactors**
15:30 - 16:00	--- Coffee Break ---
16:00 - 17:30	(Room: Adriatico Guest House Informatics Lab.) **P. Schillebeeckx** / *EC-JRC-IRMM, Neutron Physics Unit, Geel, Belgium* **Exercises**

Thursday, 22 May 2008

08:30 - 10:00	**N. Colonna/ P. Schillebeeckx** / *INFN, Sezione di Bari, Italy/EC-JRC-IRMM, Neutron Physics Unit, Geel, Belgium* **Capture Cross Section Measurements**
10:00 - 10:30	--- Coffee Break ---
10:30 - 12:00	**A. Borella** / *EC-JRC-IRMM, Neutron Physics Unit, Geel, Belgium* **Cross Section Measurements and Uncertainties of Cross Section Data**
12:00 - 14:00	--- Lunch Break ---
14:00 - 15:30	**V. Kuznetsov** / *IAEA, Vienna, Austria* **Small and Medium Sized Advanced Reactors**
15:30 - 16:00	--- Coffee Break ---

16:00 - 17:30 (Room: Adriatico Guest House Informatics Lab.)
A. Borella / *EC-JRC-IRMM, Neutron Physics Unit, Geel, Belgium*
Exercises

Friday, 23 May 2008

08:30 - 10:00 **S. Marrone** / *INFN, Sezione di Bari, Italy*
Capture Cross Section Measurements

10:00 - 10:30 --- Coffee Break ---

10:30 - 12:00 **F. Gunsing** / *CEA Saclay, DSM / IRFU / SPHN, Gif-sur-Yvette, France*
Neutron Induced Resonance Reactions

12:00 - 14:00 --- Lunch Break ---

14:00 - 15:30 **V. Kuznetsov** / *IAEA, Vienna, Austria*
Small and Medium Sized Advanced Reactors

15:30 - 16:00 --- Coffee Break ---

16:00 - 17:30 (Room: Adriatico Guest House Informatics Lab.)
S. Marrone / *INFN, Sezione di Bari, Bari, ITALY*
Exercises

Monday, 26 May 2008

08:30 - 10:00 **P. Descouvemont** / *Université Libre de Bruxelles, Brussels, Belgium*
R-matrix theory of nuclear reactions

10:00 - 10:30 --- Coffee Break ---

10:30 - 12:00 **G. Palmiotti** / *Nuclear Science and Engineering Division, Idaho National Laboratory, USA*
Sensitivity and Uncertainty Analysis for the Neutronic Design of Advanced Nuclear Systems

12:00 - 14:00 --- Lunch Break ---

14:00 - 15:30 **B.P. Bromley** / *AECL, Chalk River, Canada*
Heavy Water Reactors

15:30 - 16:00 --- Coffee Break ---

16:00 - 17:30 (Room: Adriatico Guest House Informatics Lab.)
P. Descouvemont / *Université Libre de Bruxelles, Brussels, Belgium*
Exercises

Tuesday, 27 May 2008

08:30 - 10:00 **P. Descouvemont** / *Université Libre de Bruxelles, Brussels, Belgium*
R-matrix theory of nuclear reactions

10:00 - 10:30	--- Coffee Break ---
10:30 - 12:00	**G. Palmiotti** / *Nuclear Engineering Division, Argonne National Laboratory, USA* **Sensitivity and Uncertainty Analysis for the Neutronic Design of Advanced Nuclear Systems**
12:00 - 14:00	--- Lunch Break ---
14:00 - 15:30	**B.P. Bromley** / *AECL, Chalk River, Canada* **Heavy Water Reactors**
15:30 - 16:00	--- Coffee Break ---
16:00 - 17:30	(Room: Adriatico Guest House Informatics Lab.) **P. Descouvemont** / *Université Libre de Bruxelles, Brussels, Belgium* **Exercises**

Wednesday, 28 May 2008

08:30 - 10:00	**S. Hilaire** / *CEA, Centre DAM - Ile de France, Arpajon, France* **Statistical Modeling and Calculation**
10:00 - 10:15	--- Coffee Break ---
10:15 - 13:15	**Group visit to Elettra**
13:15 - 14:00	--- Lunch Break ---
14:00 - 15:30	**Students' presentations**
15:30 - 16:00	--- Coffee Break ---
16:00 - 17:30	(Room: Adriatico Guest House Informatics Lab.) **S. Hilaire** / *CEA, Centre DAM - Ile de France, Arpajon, France* **Exercises**

Thursday, 29 May 2008

08:30 - 10:00	**S. Hilaire** / *CEA, Centre DAM - Ile de France, Arpajon, France* **Statistical Modeling and Calculation**
10:00 - 10:15	--- Coffee Break ---
10:15 - 13:15	**Group visit to Elettra**
13:15 - 14:00	--- Lunch Break ---
14:00 - 15:30	**Students' presentations**
15:30 - 16:00	--- Coffee Break ---
16:00 - 17:30	(Room: Adriatico Guest House Informatics Lab.) **S. Hilaire** / *CEA, Centre DAM - Ile de France, Arpajon, France* **Exercises**

Friday, 30 May 2008

08:30 - 10:00	**A. Mengoni** / *IAEA, Vienna, Austria* **Nuclear Data Libraries: Where? How?**
10:00 - 10:30	--- Coffee break ---
10:30 - 12:00	**Open Discussion**
12:00 - 14:00	--- Lunch break ---
14:00 - 15:30	**Students' presentations**
15:30 - 16:00	--- Coffee break ---
16:00 - 17:30	**Closing session**