

# Joint ICTP-IAEA Advanced Workshop on Model Codes for Spallation Reactions

Organizer(s): Directors: G. Mank, D. Filges, S. Leray, Y. Yariv. Local Organizer: C. Tuniz Trieste - Italy, 04 - 08 February 2008

### Venue: Adriatico Guest House Giambiagi Lecture Hall

## **Final programme**

Monday, 4th February, INC Models (Room:Adriatico Guest House Giambiagi Lecture Hall) Chairperson: G. Mank		
4 February 2008		
08:30 - 09:45	(Room: Adriatico Guest House (Lower Level 1)) Registration and Administrative formalities	
09:45 - 10:30	<b>D. Filges</b> / Forschungszentrum Juelich Gmbh, Germany Introduction and Aim of the Meeting	
10:30 - 11:00	(Room: Adriatico Guest House (Lower Level 1)) Coffee Break	
11:00 - 12:30	Y. Yariv / Soreq, Israel ISABEL - INC Model for High-Energy Hadron-Nucleus Reactions	
12:30 - 14:00	(Room: Adriatico Guest House Cafeteria) Lunch Break	
14:00 - 15:30	A. Boudard / CEA, France Detailed description of the Intra Nuclear Cascade from Liege: INCL4	
15:30 - 16:00	(Room: Adriatico Guest House (Lower Level 1)) Coffee Break	
16:00 - 18:00	General Meeting: Spallation Data and Applications, A. Mengoni, A. Stanculescu, I.A.E.A. Goals of the intercomparison	

### **19:15 - 21:15** (Room: Adriatico Guest House Cafeteria) --- Official Reception ---

<b>Tuesday, 5th February</b> INC/PE Models (Room:Adriatico Guest House Giambiagi Lecture Hall) Chairperson: S. Leray		
5 February 2008		
09:00 - 10:30	S. Mashnik / LANL, USA CEM03.03 and LAQGSM03.03 Event Generators for MCNP6, MCNPX and MARS15	
10:30 - 11:00	(Room: Adriatico Guest House (Lower Level 1)) Coffee Break	
11:00 - 12:30	A. Ferrari / CERN, Geneva, Switzerland Models in FLUKA	
12:30 - 14:00	(Room: Adriatico Guest House Cafeteria) Lunch Break	
14:00 - 15:00	<b>Z. Rudy</b> / Jagiellonian University, Cracow, Poland <b>Proton induced spallation reactions investigated within the framework of BUU model</b>	
15:00 - 15:30	Discussion of Intercomparison	
15:30 - 16:00	(Room: Adriatico Guest House (Lower Level 1)) Coffee Break	
16:00 - 18:00	(Room: Adriatico Guest House Informatics Lab.) Expert Meeting on Intercomparison: Choice of experimental data (including Neutron Data)	
20:30 - 21:45	Discussion	

## Wednesday, 6th February QMD Models (Room:Adriatico Guest House Giambiagi Lecture Hall) Chairperson: D. Filges

6 February 2008

09:00 - 10:30	C. Hartnack / Subatech, France The Description of Nuclear Collision within the Quantum Molecular Dynamics Model
10:30 - 11:00	(Room: Adriatico Guest House (Lower Level 1)) Coffee Break
11:00 - 12:30	K. Niita / RIST, Japan Nuclear Reaction Models (JAM and JQMD) in PHITS
12:30 - 14:00	(Room: Adriatico Guest House Cafeteria) Lunch Break
14:00 - 14:45	<b>F. Goldenbaum</b> / Forschungszentrum Julich GmbH, Germany Experimental data on evaporation and pre-equilibrium emission in GeV p-induced spallation reactions

14:45 - 15:30	J. Benlliure / University of Santiago de Compostela, Spain Detailed investigation of Residual Nuclei Produced in Spallation Reactions at GSI
15:30 - 16:00	(Room: Adriatico Guest House (Lower Level 1)) Coffee Break
16:00 - 16:15	M. Nandy / Saha Inst. of Nuclear Physics, Kolkata, India QMD Approach to Spallation Reactions
16:15 - 18:00	(Room: Adriatico Guest House Informatics Lab.) Expert meeting on Intercomparison: Figures of merit

### Thursday, 7th February De-excitation Models (Room:Adriatico Guest House Giambiagi Lecture Hall) Chairperson: S. Mashnik

### 7 February 2008

09:00 - 10:30	<b>A. Botvina</b> / INR, Russia <b>The Role of Multifragmentation in Spallation Reactions</b>
10:30 - 11:00	(Room: Adriatico Guest House (Lower Level 1)) Coffee Break
11:00 - 12:00	<b>R. Charity</b> / Washington Univ. in St. Louis, USA GEMINI: Dexcitation of excited compound nuclei through a series of binary decays
12:00 - 12:15	<b>A. Galoyan</b> / JINR, Dubna, Russian Federation Multiplicity fluctuations in interactions of light nuclei with carbon nuclei at momentum of 4.2 GeV/c per nucleon and their theoretical interpretation.
12:15 - 12:30	Discussion
12:30 - 14:00	(Room: Adriatico Guest House Cafeteria) Lunch Break
14:00 - 14:45	Y. Titarenko, V. Batyaev / ITEP, Russia ITEP experiments with thin targets irradiated by upto 2.6 GeV protons
14:45 - 15:30	<b>R. Michel</b> / Univ. of Hannover, Germany Experimental Cross Sections for the Production of Residual Nuclides at Medium Energies: Status, Recent Progress and Challenges for Modeling
15:30 - 16:00	(Room: Adriatico Guest House (Lower Level 1)) Coffee Break
16:00 - 18:00	(Room: Adriatico Guest House Informatics Lab.) Expert meeting on Intercomparsion: Data and results format, General Discussion

### **Friday, 8th February De-excitation Models** (Room:Adriatico Guest House Giambiagi Lecture Hall) Chairperson: Y. Yariv

### 8 February 2008

09:00 - 10:30 K. H. Schmidt / GSI, Germany The de-excitation code ABLA07

10:30 - 11:00	(Room: Adriatico Guest House (Lower Level 1)) Coffee Break
11:00 - 12:30	<b>S. Leray</b> / CEA, France Summary and perpectives (intercomparison description)
12:30 - 14:00	(Room: Adriatico Guest House Cafeteria) Lunch Break

14:00 - 16:00 Closed Session (Report)