



Town Meeting on the IFMIF/ELAMAT Complementary Scientific Program

Rzeszów University of Technology, Poland
April 14-15, 2016

Program of the Workshop "Town Meeting on IFMIF/ELAMAT Complementary Scientific Program"



INSTYTUT FIZYKI JĄDROWEJ
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*Conference under the Honorary Patronage of Władysław Ortyl,
the Marshal of Podkarpackie Voivodeship*



Thursday, 14.04.2016

12:30 – 13:30 *Lunch buffet*

13:30 – 13:45 **Welcome** (from Rzeszów University of Technology or/and local authorities)

13:45 – 14:00 Poland's bid for hosting IFMIF (from Ministry of Science or/and Ministry of Development)

14:00 – 14:15 Goals of the workshop (Adam Maj)

14:15 - 15:15 **Introductory session** (chair: Krzysztof J. Kurzydłowski)

Angel Ibarra (CIEMAT), Herve Dzitko (F4E) - Overview of IFMIF/DONES and testing of materials for DEMO

Ulrich Fischer (KIT) - Other applications of IFMIF/DONES: Material irradiations at high neutron fluences and high energies

Łukasz Ciupiński (Warsaw University of Technology) – Research on radiation damage of fusion relevant materials carried out at Warsaw University of Technology

15:15 – 15:45 *Coffee break*

15:45 – 17:00 **Applications of medical interest** (conv.: Sydney Gales, Marek Jeżabek)

Anthony Marchix (CEA Saclay) - Perspectives on the production of $^{99}\text{Mo}/^{99\text{m}}\text{Tc}$

Renata Mikołajczak (NBCJ Świerk) - Radionuclides and radiopharmaceuticals for therapy

Paolo Colautti (INFN Legnaro) – Accelerator-Based Boron Neutron Capture Therapy

Other short contributions and discussion

17:00 – 19:30 **Nuclear Physics and Radioactive Ion facility** (conv.: Marek Lewitowicz, Muhsin Harakeh)

Xavier Ledoux (GANIL) – Neutrons for Science at SPIRAL2

Pierre Delahaye (GANIL) – Estimates for fast neutron induced fission fragment distributions

Jonathan Wilson (IPN Orsay) – Production and study of the most exotic neutron-rich nuclei via fast neutron induced fission

Aurelien Blanc (ILL Grenoble) – FFIPS recoil separator at Grenoble

Bogdan Fornal (IFJ PAN Kraków) – Gamma-ray spectroscopy of nuclei at the edges of neutron-induced fission product distributions at IFMIF/DONES

Michael Hass (Weizmann Inst.) – Probing fundamental interactions by precision measurements of β - ν correlations

Other short contributions and discussion

20:30 *Conference Dinner*

Friday, 15.04.2016

8:45 – 10:45 Basic physics studies (conv.: Zsolt Fulop, Tomasz Matulewicz)
Rene Reifarth (Goethe University Frankfurt) – Neutrons in Astrophysics
Pierfrancesco Mastinu (INFN Legnaro) – The LENOS Project at Laboratori Nazionali di Legnaro of INFN-LNL: a thermal to 70 MeV neutron beam facility
Alain Letourneau (CEA Saclay) – Neutron and Neutrino oscillations in the framework of IFMIF/ELAMAT facility
Wojciech Szuszkiewicz (University of Rzeszów) – Neutrons in solid state physics
Przemysław Piekarczyk (IFJ PAN Kraków) – Ab-initio modelling of materials with defects
Other short contributions and discussion
<i>10:45 – 11:15 Coffee break</i>
11:15 – 12:30 Industrial application of neutrons (conv.: Władysław Dąbrowski, Krzysztof Kurek)
Jonathan Wilson (IPN Orsay) – The potential use of fast neutrons to perform computed tomographic imaging
Jacek Jagielski (NCBJ Świerk) – Damage accumulation in irradiated materials: influence on structural and functional properties
Arno Hiess (ESS Lund) – Future scientific possibilities at the European Spallation Source
Short contributions and discussion:
Władysław Dąbrowski (AGH University of Science and Technology) – Neutron Transmutation Doping of Silicon
Włodzimierz Pomierny (Agencja Rozwoju Przemysłu) – t.b.c.
12:30 – 13:00 General discussion (conv.: Faical Azaiez, Adam Maj)
13:00 - 13:15 Sydney Gales (IPN Orsay, ELI NP Bucharest) – Concluding remarks
13:15 Adam Maj – Closing of the meeting
<i>13:30 – 14:15 Lunch buffet</i>

Advisory Committee of the Workshop

Nicolas Alamanos (IRFU CEA Saclay)
Faical Azaiez (IPN Orsay)
Alain Becoulet (IRFM CEA Saclay)
Maciej Chorowski (Wrocław University of Technology)
Łukasz Ciupiński (Warsaw University of Technology)
Władysław Dąbrowski (AGH University of Science and Technology)
Giovanni Fiorentini (INFN Legnaro)
Zsolt Fulop (ATOMKI Debrecen)
Sydney Gales (ELI-NP Bucharest)
Muhsin Harakeh (KVI Groningen)
Roland Heidinger (Fusion for Energy, Garching)
Angel Ibarra Sanchez (CIEMAT Madrid)
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Stanisław Kistryn (Jagiellonian University)
Marek Lewitowicz (GANIL)
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Robert Stieglitz (KIT Karlsruhe)
Wojciech Szuszkiewicz (University of Rzeszów and PAN)
Grzegorz Wrochna (NCBJ Świerk)

Organizing Committee

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Leonard Ziemiański (Rzeszów University of Technology) Co-chair
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Marek Scholz (IFJ PAN Kraków)
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