

**Workshop on modern methods using fast neutrons for research related to
the transmutation of nuclear waste**

held together with the 1st **EFNUDAT** collaboration and users meeting
at Forschungszentrum Dresden-Rossendorf

Wednesday morning, 13.02.08

8h30

Welcome

E. Grosse / G. Barreau, Bordeaux

Neutron facilities I

9h00

Neutron capture data in the keV range

F. Käppeler, Karlsruhe

9h30

IRMM programme in the field of waste management and innovative systems

J. Hamsch, Geel

10h00

Status of the CERN-nTOF facility

V. Vlachoudis, Geneva

Coffee break

Neutron facilities II

11h00

The nELBE time of flight facility

A. Junghans, Dresden

11h20

NPI Rez facility

A. Kugler, Prague

11h40

IKI in EFNUDAT: First year activity report

T. Belgya, Budapest

12h00

CACAO - a laboratory for thin radioactive targets

C. O. Bacri, Orsay

Lunch

Wednesday afternoon, 13.02.08

Future neutron facilities

14h00

Nuclear liquid metal target development

R. Stieglitz, Karlsruhe

14h30

The planned high intensity neutron facility FRANZ

O. Meusel, Frankfurt

14h50

The liquid lead target at nELBE

V. Galindo, Dresden

15h10

FIRST: Transfer ReactionS Induced Fission + NFS: Neutrons For Science

F. Rejmund, Caen

Coffee break

EFNUDAT and other transmutation activities

16h40

Minor actinides neutron induced fission cross sections

B. Jurado, Bordeaux

17h10

Design of an intense neutron source for time-of-flight measurements

S. Bartalucci, Frascati

17h30

Measurements of ^6Li and ^7Li and Neutron facility of CIAE at Beijing

G. Chen, Braunschweig/Beijing

17h50

Neutron capture measurements on actinides using DANCE

R. Reifarth, Darmstadt/Los Alamos

18h20

DANCE scintillation array for (n, γ) experiments

M. Krlicka, Prague

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Nuclear Physics Background

8h30

Strength function phenomenology

F. Becvar, Prague

9h00

Photon-strength function measurements

R. Schwengner, Dresden

9h30

Microscopic level densities, γ strength functions and TALYS-1.0

S. Hilaire, Bruyères-le-Châtel

Coffee break

10h40

Unified theory for direct and compound reactions

H. Wolter, Munich

11h20

Neutron capture calculations

A. Mengoni, Vienna

11h50

CEA/CNRS activities on nuclear data for transmutation

F. Gunsing, Saclay

Conference photo

Lunch

Thursday afternoon, 14.02.08

EFNUDAT Transnational Access Activities (TAA)

14h00

Transnational access activities (TAA)

W. Mondelaers

14h10

Neutron capture cross section of ^{235}U in the keV region by activation and detection of ^{236}U by AMS

A. Wallner

14h30

Neutron detector efficiency experiment

X. Ledoux

14h40

Characterisation of neutron detectors for nuclear technology applications

T. Martinez

14h50

Precise measurements of the fission neutron spectrum for application and fundamental investigation of the neutron emission mechanism

F.-J. Hamsch

15h00

First measurement of the neutron capture cross section of ^{231}Pa in the keV region

A. Plompen

15h10

Cross-section measurements proposed by NPI at TSL in Uppsala

V. Wagner

15h20

Spectral distribution of the ANITA white neutron beam facility at TSL at UU

S. Röttger

Coffee break

Progress Reports on EFNUDAT Joint Research Activities (JRA)

16h00

JRA1: Digitizer for neutron capture experiments – A. Plompen

Flash-ADCs at the Karlsruhe van de Graaff – R. Plag

Digitizer data acquisition at nELBE – A. Wagner

JRA2: Overview – S. Röttger

Tracking neutrons with FLUKA – F. Sommerer

Plastic scintillators for low energy ToF measurements – R. Beyer

JRA3: Overview – E. Grosse

Investigation of the $^{15}\text{N}(p,n)$ reaction as a neutron source – E. Poenitz

1st experiments at the nELBE time of flight facility – A. Junghans

Friday, 15.02.08

Transmutation and related new developments

8h30

New developments - upcoming needs for nuclear data and facilities

P. Rullhusen, Geel

9h10

EURATOM framework programs research activities in waste transmutation and Gen IV reactor systems

V. Bhatnagar, Brussels

9h50

Target database

T. Belgya, Budapest

10h10

EFNUDAT networking activities, esp. NA2

G. Barreau

10h20

EFNUDAT appearance in the web and elsewhere (NA3)

R. Plag, Darmstadt

Coffee break

11h00

Governing Council / Presentation NA1 – Tour of nELBE for non-EFNUDATers

Lunch

Data Analysis and other topics

14h00

The question of uncertainties in Nuclear Data Evaluation

H. Leeb, Vienna

14h40

The SCANDAL facility at TSL Uppsala

P. Andersson, Uppsala

15h00

ERAWAST – Exotic radionuclides from accelerator waste for science and technology

D. Schumann, Villigen

15h20

New research possibilities in nuclear data related fields

S. Hlavac, Bratislava

Coffee break – **Grand tour of the nELBE facility**