

Monday, 29. August

20:00 *APER0 - SCHLOSS BÖTTSTEIN*

Tuesday, 30. August

09:00 – 09:30 **REGISTRATION**

09:30 – 09:45 **Welcome Address**
J. Mesot, Director of Paul Scherrer Institute, Switzerland

NUCLIDE PRODUCTION AND SEPARATION

Chairperson: G. Schertler, Paul Scherrer Institute, Switzerland

09:45 – 10:30 **D. Schumann, Paul Scherrer Institute, Switzerland**
ERAWAST – Nuclear chemistry for nuclear sciences

10:30 - 11:00 **COFFEE BREAK**

Chairperson: D. Schumann, Paul Scherrer Institute, Switzerland

11:00 - 11:45 **M. Ayranov et al., Paul Scherrer Institute, Switzerland**
Exotic radionuclides extraction from proton irradiated copper beam dump and SINQ cooling water

11:45 - 12:30 **M. Bunka et al., Paul Scherrer Institute, Switzerland**
Separation of ^{44}Ti , ^{26}Al and ^{53}Mn from irradiated stainless steel

12:30 - 14:00 **LUNCH**

FACILITIES

Chairperson: F. Käppler, KIT, Karlsruhe, Germany

14:00 - 14:45 **G. Korschinek, TU Munich, Germany**
Accelerator Waste, Accelerator Mass Spectrometry and more

14:45 - 15:30 **M. Paul, Hebrew University of Jerusalem, Israel**
A high-intensity source of stellar-energy neutrons for rare-nuclide activations

15:30 - 16:15 **A. Wallner et al., University of Vienna, Austria**
New exotic and non-standard radionuclides in AMS

16:15 - 16:45 **COFFEE BREAK**

Chairperson: R. Dressler, Paul Scherrer Institute, Switzerland

16:45 - 17:30 **E. Chiaveri, CERN, Switzerland**
Measurement possibilities with radioactive samples at CERN n_TOF facility

17:30 - 18:15 **T. Stora, CERN ISOLDE, Switzerland**
Radioactive ion beams at ISOLDE, CERN: New developments and needs

18:15 - 19:00 **S. Söllradl et al., TU Munich, Germany**
Plan to measure the neutron capture cross section of ^{60}Fe with cold neutrons at the PGAA facility in Munich

Wednesday, 31. August

FUTURE PLANS

Chairperson: J. Eikenberg, Paul Scherrer Institute, Switzerland

09:00 - 09:45

D. Bemmerer et al., HZDR Dresden, Germany

Is it possible to study the $^{44}\text{Ti}(\alpha, p)^{47}\text{V}$ reaction with a radioactive target?

09:45 - 10:30

S. Schmidt et al., University of Frankfurt, Germany

(n, γ) reactions at the Frankfurt neutron source "FRANZ"

10:30 - 11:00

COFFEE BREAK

Chairperson: G. Korschinek TU Munich, Germany

11:00 - 11:45

J. Fallis et al., TRIUMF Vancouver, Canada

Using beams of reclaimed ^{44}Ti to explore the mechanism of core collapse in supernovae

11:45 - 12:30

R. Dressler, Paul Scherrer Institute, Switzerland

Plan to measure the half-life and neutron capture cross section of ^{53}Mn

12:30 - 14:00

LUNCH

Chairperson: D. Bemmerer, HZDZ, Dresden, Germany

14:00 - 14:45

A. Di Pietro, INFN LNS Catania, Italy

Reactions induced by radioactive Be beams

14:45 - 15:30

K. Zuber et al., TU Dresden, Germany (talk given by D. Bemmerer)

Search for Muonic analog of neutrinoless double beta decay in Titanium

15:30 - 16:15

P. J. Woods et al., University of Edinburgh, United Kingdom

Destruction of the Cosmic Gamma-ray Emitter ^{26}Al by neutron induced Reactions

16:15 - 16:45

COFFEE BREAK

Chairperson: A. Türler, Paul Scherrer Institute, Switzerland

16:45 - 17:30

G. Tagliente, INFN Bari, Italy

Measurement of the ^{93}Zr capture cross-section at n_TOF facility at CERN

DREAMS AND ILLUSIONS

17:30 - 18:15

I. Dillmann, GSI Darmstadt, Germany

The stellar half-life of ^{44}Ti – Solution of the Cassiopeia A problem?

18:15 - 19:00

W. Kutschera et al., University of Vienna, Austria

The Search for Superheavy Elements in Nature

Thursday, 01. September

RESULTS I

Chairperson: W. Kutschera, University of Vienna, Austria

09:00 - 09:45

G. Rugel, HZDR Dresden/TU Munich, Germany

Determination of the ^{60}Fe half-life - a successful Collaboration in ERAWAST

09:45 - 10:30

Niko Kivel et al., Paul Scherrer Institute, Switzerland

Half-life determination by means of Multicollector Inductively Coupled Plasma Mass Spectrometry (MC-ICP-MS)

10:30 - 11:00

COFFEE BREAK

Chairperson: R. Reifarth, University of Frankfurt, Germany

11:00 - 11:45

W. Kutschera et al., University of Vienna, Austria

The half-life of ^{60}Fe revisited

11:45 - 12:30

R. Dressler et al., Paul Scherrer Institute, Switzerland

Repetition of the re-measurement of the ^{60}Fe half life

12:30 - 14:00

LUNCH

Chairperson: A. Murphy, University of Edinburgh, United Kingdom

14:00 - 14:45

L. Gialanella, INFN-Naples, Italy

Measurement of the $^7\text{Be}+p$ cross section using the recoil mass separator ERNA

14:45 - 15:30

C. Lederer et al., University of Vienna, Austria

Measurement of the neutron capture cross section of the s-process branching ^{63}Ni at n_TOF/Cern

15:30 - 16:15

K. Sonnabend, University of Frankfurt, Germany

ATHENA – A networking activity within ENSAR

16:15 - 16:45

COFFEE BREAK

Chairperson: T. Stora, CERN, Switzerland

16:45 - 17:30

P. H. Santschi et al., Texas A&M University at Galveston, USA

Biopolymers as carriers of natural (Th, Pa, Pb, Po, Be) radionuclides in aquatic systems

17:30 - 18:15

M. Paul, Hebrew University, Jerusalem, Israel

A proposal for re-determination of ^{146}Sm half-life

19:30

WORKSHOP DINNER – SCHLOSS BÖTTSTEIN

Friday, 02. September

RESULTS II

Chairperson: M. Ayrarov, Paul Scherrer Institute, Switzerland

- 09:00 - 09:45 **M. Gai et al., University of Connecticut, USA**
Measurement of the cross section of the ${}^7\text{Be}(n,\alpha)\alpha$ Reaction and the Problem of Primordial ${}^7\text{Li}$
- 09:45 - 10:30 **K. Schmidt et al., HZDR Dresden, Germany**
The ${}^{40}\text{Ca}(\alpha,\gamma){}^{44}\text{Ti}$ reaction studied by activation
- 10:30 - 11:00 ***COFFEE BREAK***
- Chairperson: I. Günther-Leopold, Paul Scherrer Institute, Switzerland**
- 11:00 – 11:45 **T. Heftrich et al., University of Frankfurt, Germany**
Stellar production and destruction rates of ${}^{60}\text{Fe}$
- 11:45 – 12:30 **R. Reifarth et al., University of Frankfurt, Germany**
The Stellar neutron capture of ${}^{60}\text{Fe}$
- 12:30 - 14:00 ***LUNCH***