Programme and Abstracts

Acknowledgments

The organizers wish to thank the organizers of NEUDOS-11 for the opportunity to run this satellite symposium.
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Neutrons for Therapy

Programme

10:20-10:30  Welcome and Introduction  W. Sauerwein

Radiation Biology

Chair: A. Wittig

10:30 -10:50  Radiobiology of high-LET radiation  J. Gueulette, J.P. Slabbert, D.T.L. Jones, A. Wambersie

10:50 -11:10  Radiosensitivities of different prostate cancer cell types to fast neutrons and X-rays  J.P. Slabbert, T.T. Sebeela, AM Serafin, F. Vernimmen

11:10-11:30  Discussion

Fast Neutron Therapy

Chair: D. J. Grocott

11:30-11:45  Status of fast neutron therapy at the Northern Illinois University Institute for Neutron Therapy at Fermilab.  T. Kroc

11:45-11:50  Questions


12:05-12:10  Questions


12:25-12:30  Questions

12:30-12:45  Fast neutron therapy in Essen: The actual situation  W. Sauerwein, R. Hentschel, L. Brualla, A. Wittig

12:45-12:50  Questions

12:50-14:00  Lunch and Poster Session A
14:00-14:15  Quo Vadis after 21 years of neutron therapy at iThemba LABS – Faure, E. Murray, L. van Wijk, South Africa S. Fredericks, S. de Canha, F. Vernimmen, C. Stannard, J. Harris, Z Mohammed

14:15-14:20  Questions

14:20-14:35  Operational aspects of fast neutron therapy at iThemba LABS J.E. Symons, J.J. Nieto-Camero


**Poster**
L.I. Musabaeva, V.A. Lisin, Zh.A. Zhogina, V.V. Velikaya:
Results of neutron and neutron-photon therapy for malignant tumors at the Cancer Research Institute Tomsk

**Round Table Discussion**

**Visit**
15:30-16:15  Visit to the neutron facility at iThemba LABS

**BNCT**
16:15-16:30  implementation of boron neutron capture therapy (BNCT) into clinical practice A. Wittig, A. Matsumura, Y. Nakagawa, T. Aihara, H. Joensuu, A. Zonta, P. Busse, W. Sauerwein

16:30-16:35  Questions
16:35-16:45 The application of NCTPlan program for the dosimetry planning of Neutron Capture Therapy on MEPhI research nuclear reactor

16:45-16:50 Questions

16:50-17:00 Feasibility study to treat liver metastases at the TRIGA Mainz

17:00-17:05 Questions

17:05-17:20 No technical problems for realization of best reaction to form the beam of epithermal neutrons for BNCT
S. Taskaev,

17:20-17:35 The status on the development of an accelerator-based BNCT system in Japan
T. Kobayashi

17:35-17:45 Boron Neutron Capture Enhancement of Fast Neutron Therapy at the Wayne State University / Karmanos Cancer Center Neutron Therapy Facility and at CIRCE in Essen
J. Burmeister, M. Yudelev, C. Kota, R. Maughan, A. Wittig, R. Hentschel, W. Sauerwein

17:45-18:15 **Discussion: Accelerators for BNCT: the future?**
**Chair: W. Sauerwein**

18:30-21:00 Barbeque at *iThemba LABS*