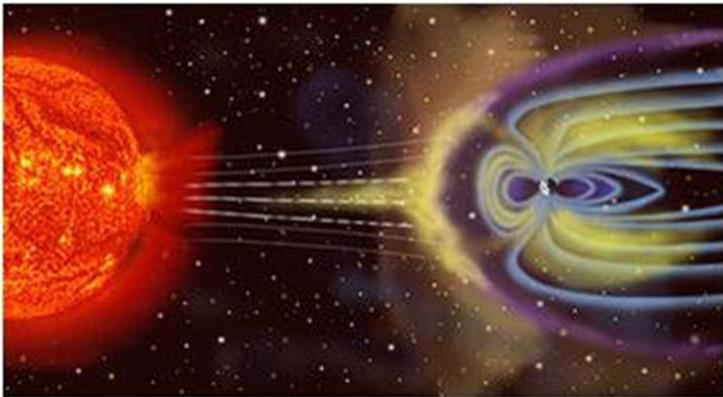


PIEAS Colloquium

Radiobiology of Accelerated Heavy Ions: Benefits for Tumor Therapy and Risks for Manned Space Flight



Speaker:

Prof. Dr. Christa Baumstark-Khan

Team Leader of the Biodiagnostics-Group
German Aerospace Center
Institute of Aerospace Medicine
Radiation Biology, Köln, Germany

on

Monday, September 26, 2016

At

14:00 hrs

In

Conference Room, C-Block

All are cordially invited

Contact persons: Dr Masroor Ikram, Director (Academics),
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Prof. Dr. Christa Baumstark-Khan is working as a senior scientist and group leader in the fields of Space Radiation Biology at the German Aerospace Center. She holds a professorship at the University of Applied Sciences at Bonn-Rhein-Sieg (Germany).

Her major scientific interests include the biological response to cosmic solar particle and geometrically trapped radiation, with emphasis on biological effectiveness of the hard component of cosmic radiation (HZE particles and nuclear disintegration events). Her group investigates the influence of external factors (weightlessness and environmental stress) on radio-biological processes to enable radiation risk assessment and development of biological radiation countermeasures for manned spaceflight. In this respect she was/is involved in experiments on space shuttle and the international space station (ISS) investigating cellular radiation effects and DNA damage response pathways. She is actively involved in international cooperation and has supervised more than 50 German and international students during the practical phase of their bachelor, master, diploma, and PhD theses. She has published more than 200 peer-reviewed scientific papers and was co-editor for 3 books.