

# GSI – BIOPHYSICS SEMINAR

**Thursday, November 4, 2021 at 2 p.m.**

Zoom Room: <https://tu-darmstadt.zoom.us/j/83918106093>

**Prof. Marco Durante**

GSI Biophysics Department

***“Toward international dose limits for human missions to the moon and Mars”***

Cosmic radiation is generally acknowledged as the main health risk in human space exploration. The space agencies are currently adopting different dose limits for their astronauts. Recently, NASA has revised the maximum career dose, basically releasing the previous constraints of a 3% excess cancer mortality risk within 95% CI. Russia, Japan, and ESA are also revising the risk models and corresponding limits. However, for international missions it will be necessary to reach a consensus, especially for long-term missions such as Mars, where all current limits will be probably exceeded. ICRP Task Group 115 is currently trying to reach an international consensus. In this seminar we will describe the efforts of the TG115 and the impact of the dose limits on ground-based space radiation research.

**Hosted by Prof. Dr. Marco Durante**  
**GSI Helmholtzzentrum für Schwerionenforschung GmbH**