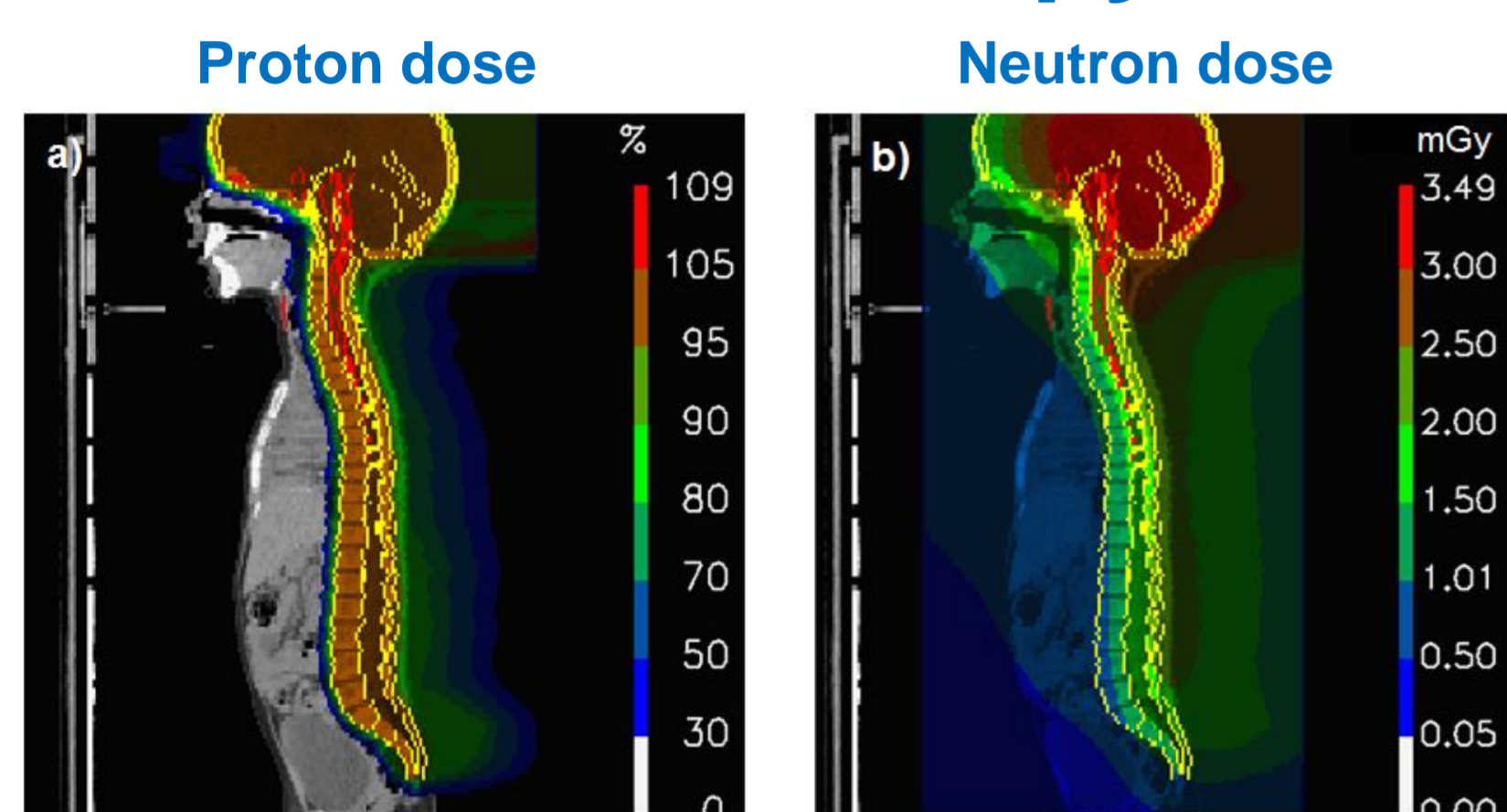


Current research topics in Medical Physics Radiation Research

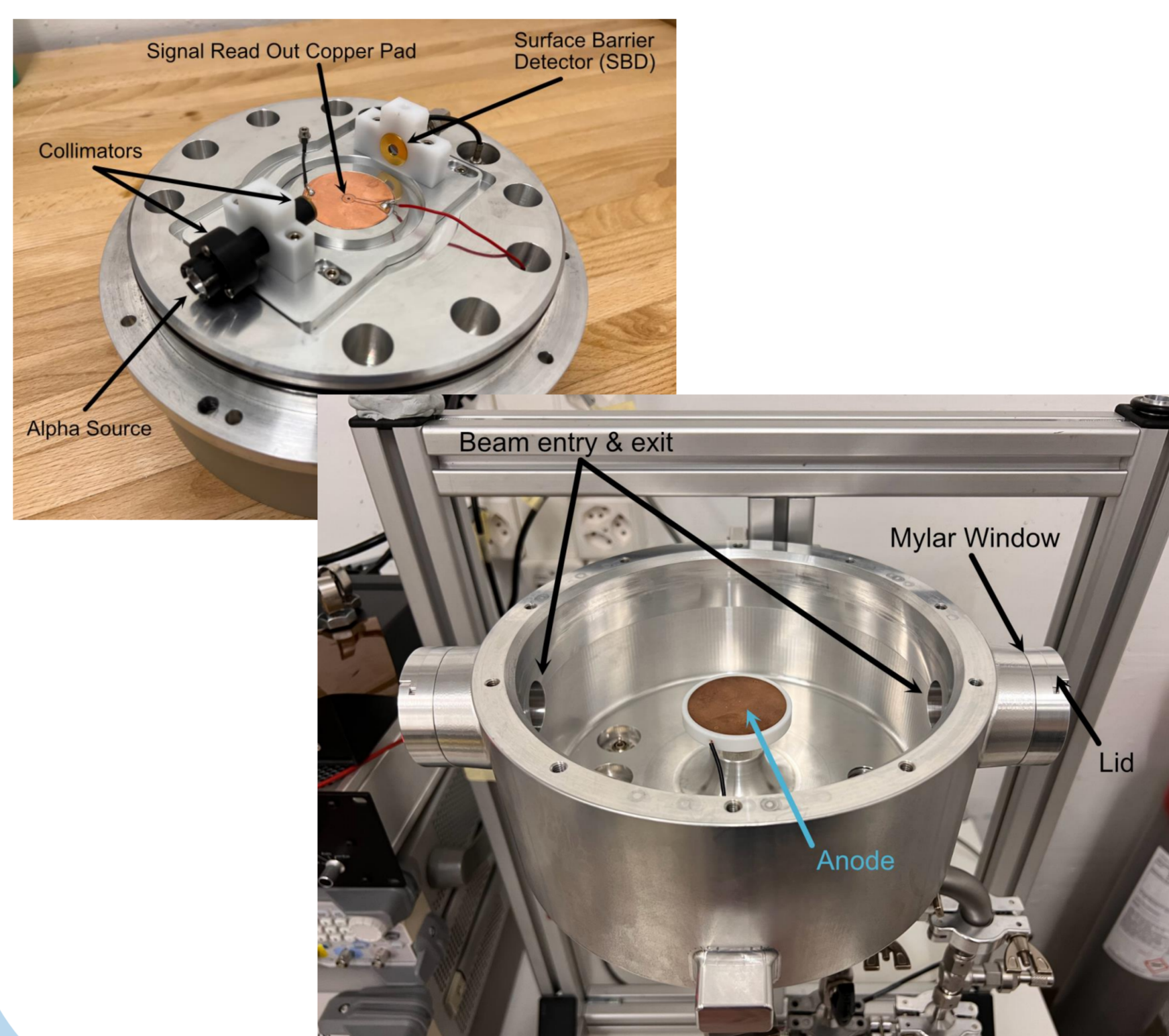
Uwe Schneider, Department of Physics, Science Faculty, University of Zürich and Radiotherapy Hirslanden, Witellikerstrasse 40, Zürich, Switzerland

Neutron dose models for radiotherapy

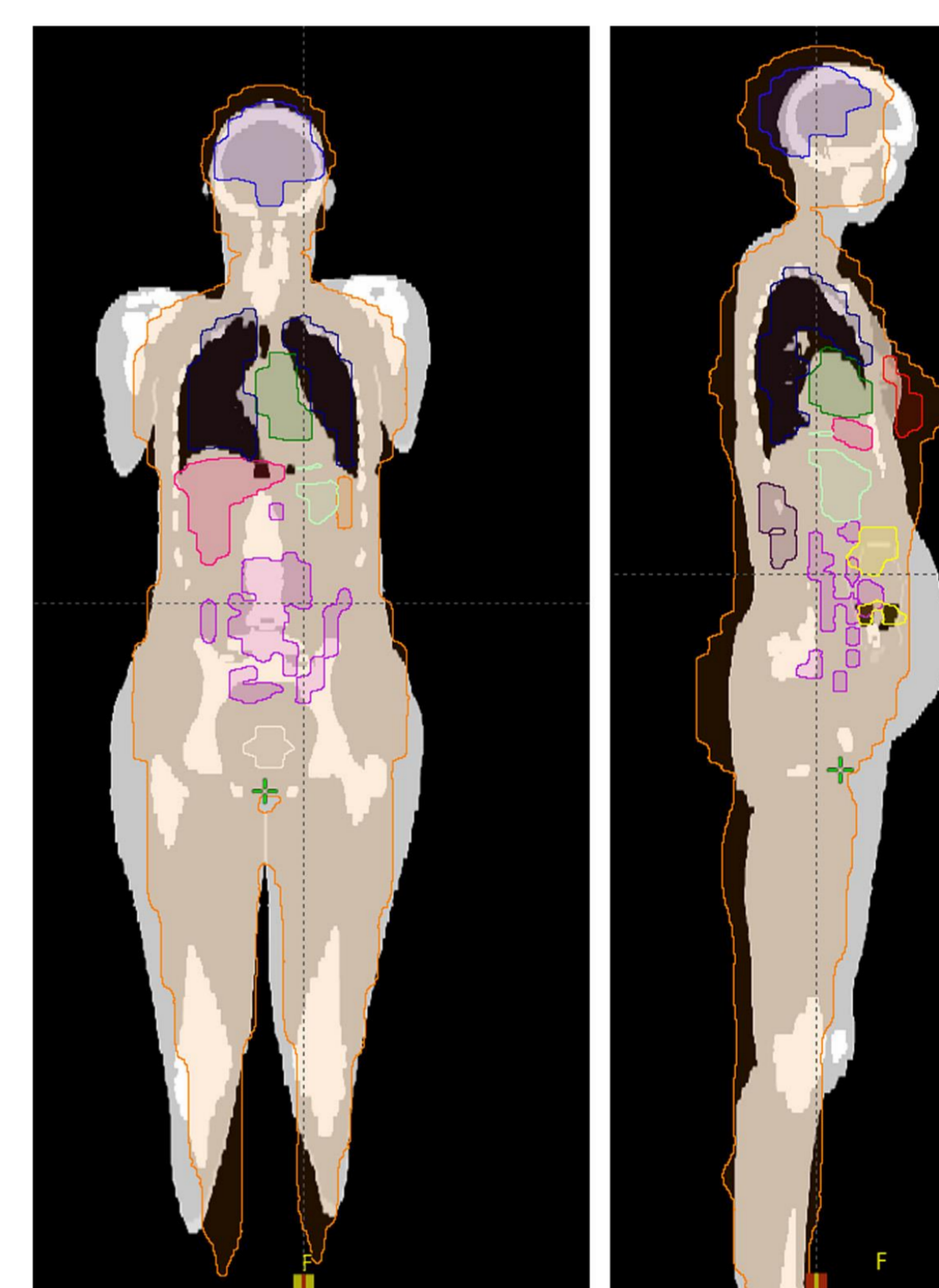


Nanodosimetry

Measurements of ionizations in DNA volumes to quantify radiation damage

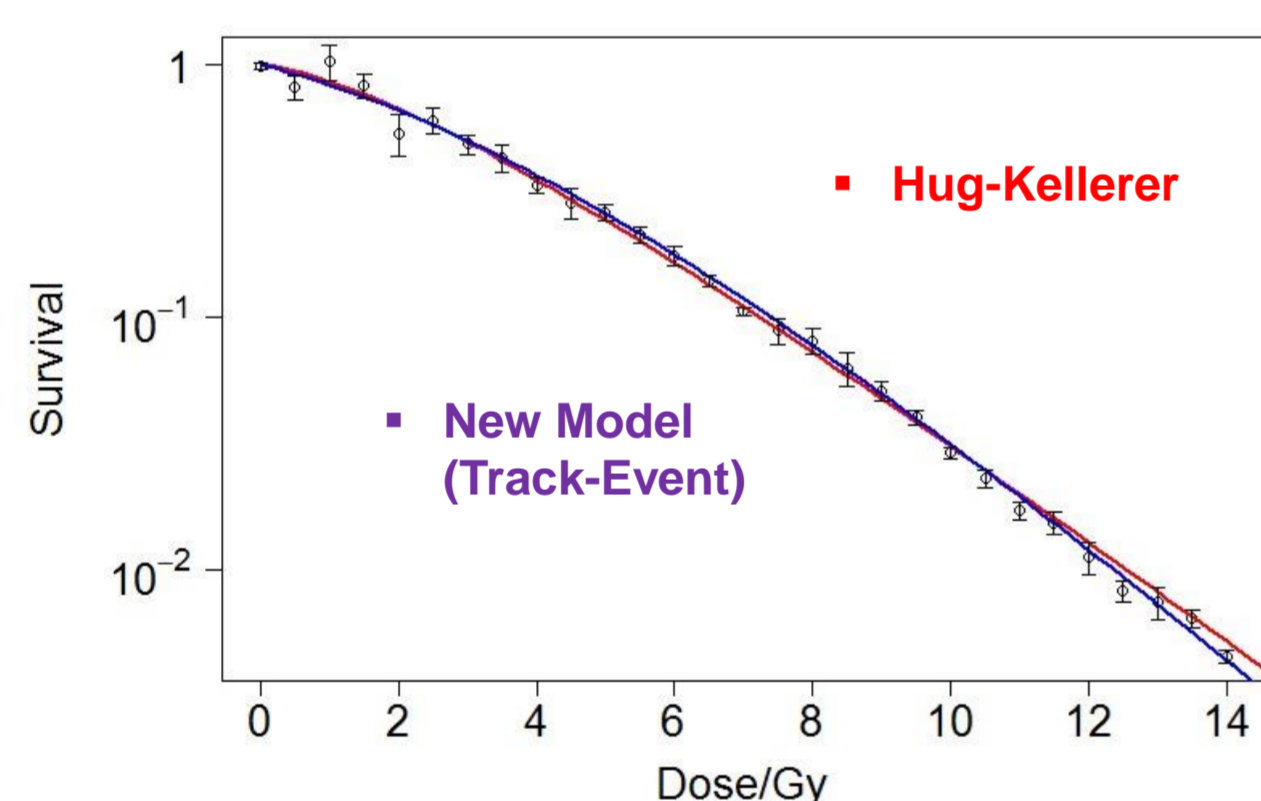


Whole Body dose calculations

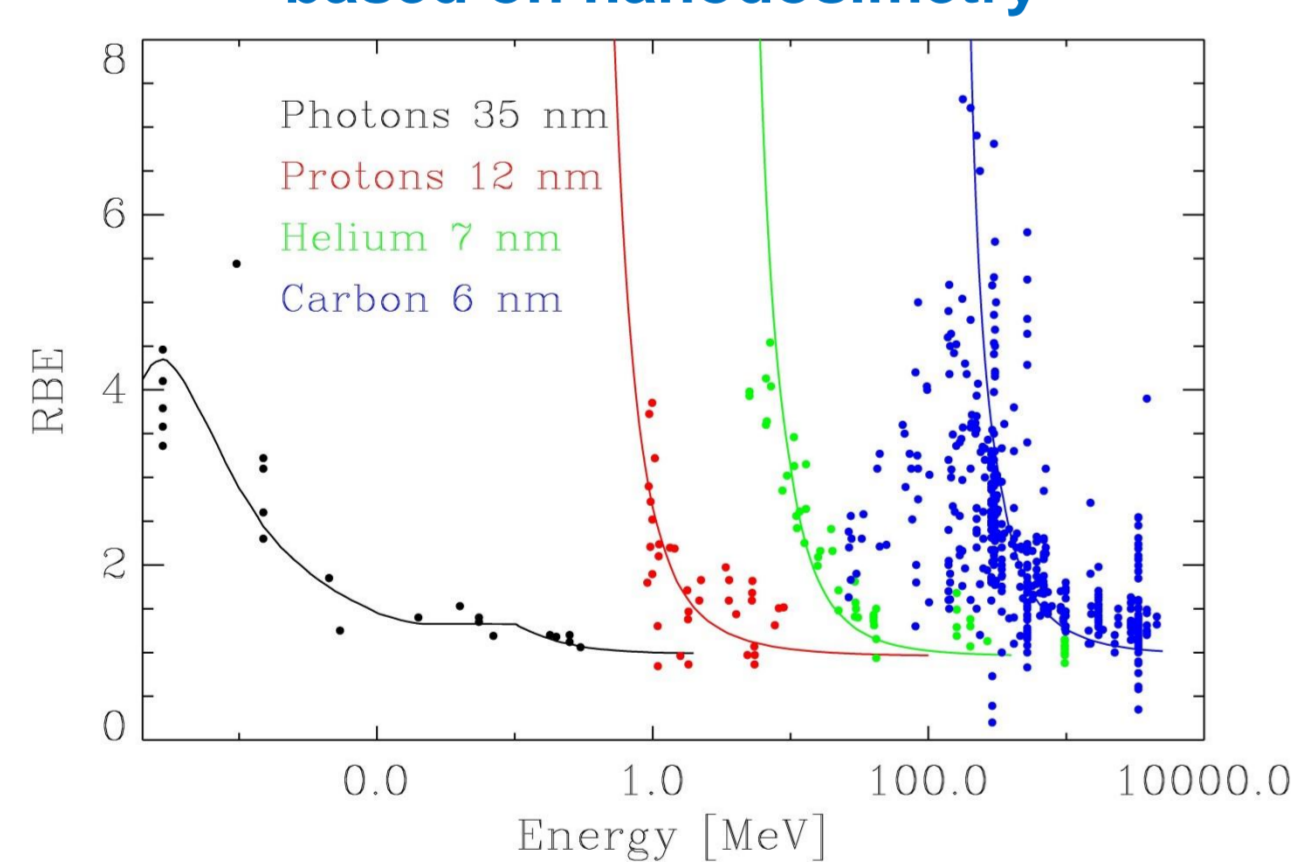


Cell kill, RBE and normal tissue complication

Cell survival models for large radiation dose



Biological effectiveness of different radiations based on nanodosimetry



Medical Physics

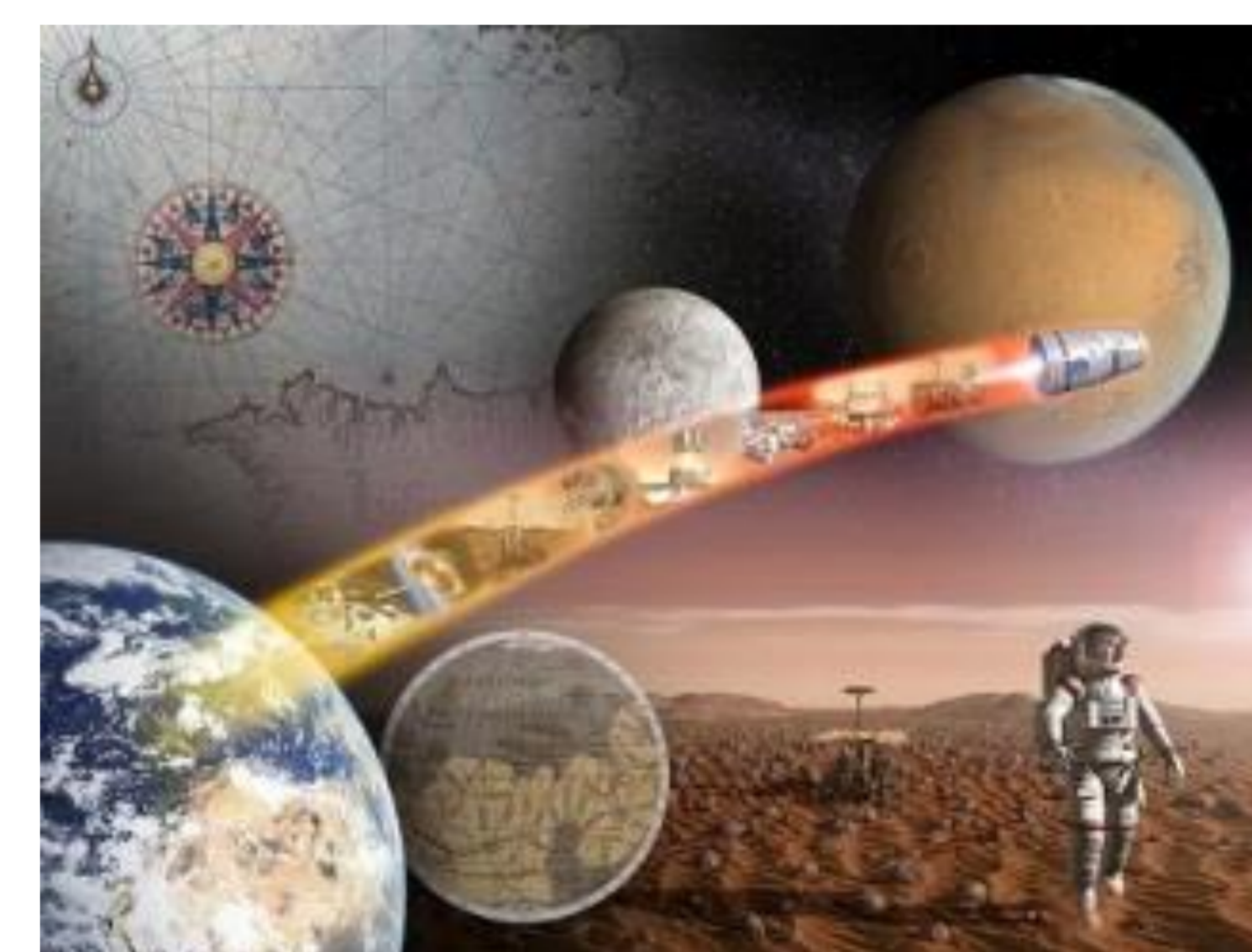
Theoretical Biology

Radiation Research

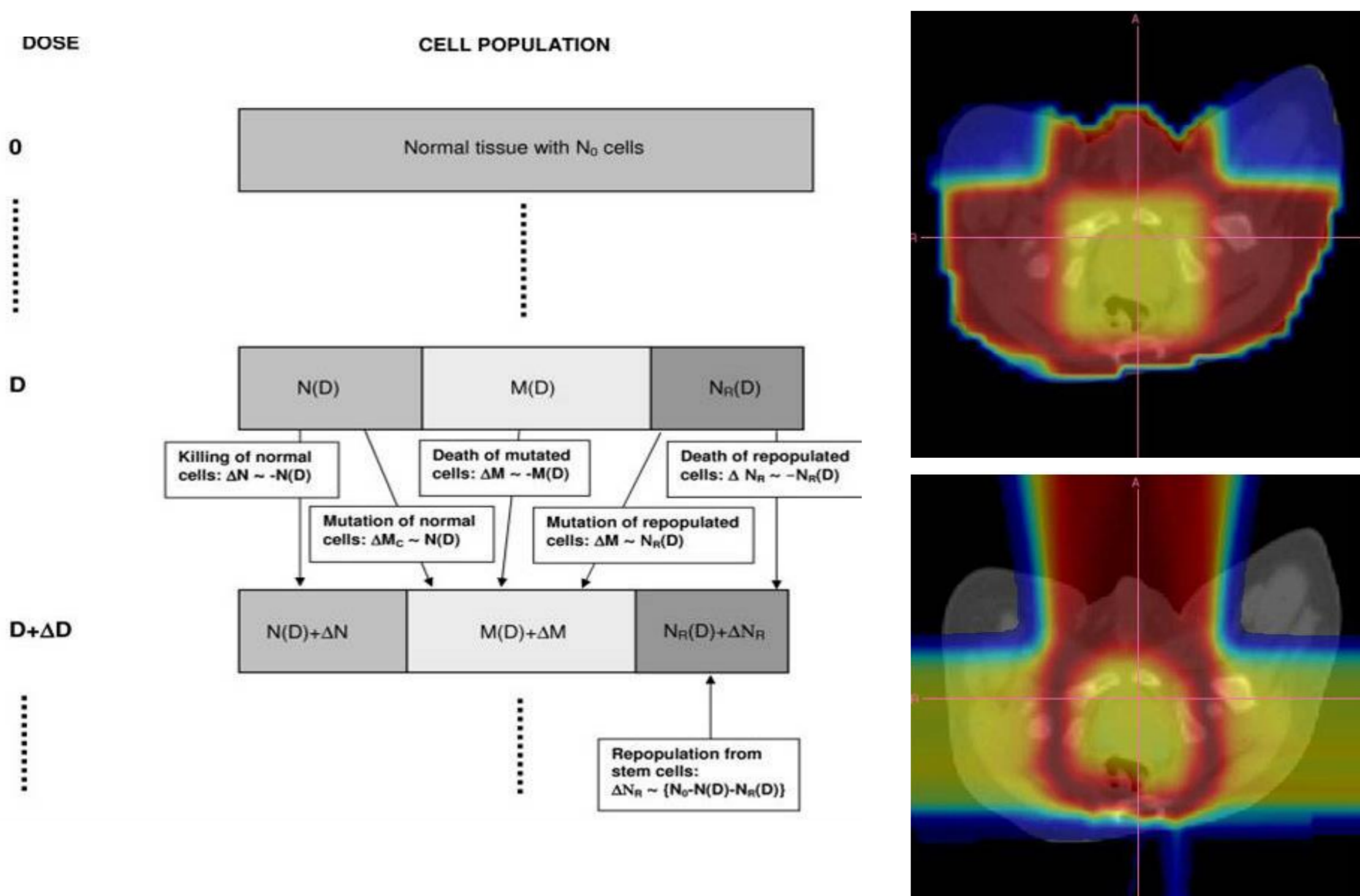
Applied Mathematics

Space radiation risk

Development of models for long term missions



Bio-Physical models for cancer induction



Monte Carlo models for ion transport in gas

