

Joint seminar of the NPI of the CAS

24. 4. 2025

prof. Ing. Ondřej Lebeda, Ph.D. (DRP NPI):
Cyclotron radionuclides for medicine and physics

Abstract:

Basic principles and challenges of the cyclotron radionuclides production are described. Examples of several novel medical radionuclides will be presented, as well as principles of a radiopharmaceuticals function. Relevance of cyclotron radionuclides for basic physical research is illustrated on the emanation generator $^{83}\text{Rb}/^{83\text{m}}\text{Kr}$ for the KATRIN experiment.