

Challenges in the Boron Neutron Capture Therapy

Friday 25 September 2020 15:00 (20 minutes)

The use of neutron capture reactions in cancer therapy was proposed already in 1936, four years after the discovery of the neutron. Up to now, this kind of cancer treatment is widely used for tumors with a poor response to traditional therapies (surgery, γ radiotherapy, or chemotherapy). The use of ^{10}B selectively absorbed by the cancer cells provides high dose delivery to the malignancy with substantially smaller irradiation of the healthy surrounding tissues. Despite the rich history feasibility studies and clinical trials of this therapy are still carried out all over the world. In this talk, we present selected open questions in view of the BNCT development in Poland, in particular on the new neutron sources and dose monitoring systems.

Author: SILARSKI, Michal (Jagiellonian University)

Co-author: DZIEDZIC-KOCUREK, Katarzyna (M. Smoluchowski Institute of Physics, Jagiellonian University)

Presenter: SILARSKI, Michal (Jagiellonian University)

Session Classification: Afternoon Session