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Challenges in the Boron Neutron Capture Therapy

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The use of neutron capture reactions in the cancer therapy was proposed already in 1936, four years after the discovery of 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 provide high dose delivery to the malignancy with a substantially smaller irradiation of the healthy surrounding tissues. Despite of 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.

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