

ALTIERI-1: Accelerator based BNCT activities in Europe

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Intense neutron sources produced by proton accelerators and suitable for BNCT are now available; they can be installed directly into an hospital environment opening new possibilities to spread BNCT as a new available treatment against cancer. Many facilities are already installed in Japan; some are planned, or under installation, in Europe. Many groups are working on BNCT in Europe like in Finland, United Kingdom, Italy, Spain, Germany, Poland. In Finland, after the FIR1 reactor shutdown, a new BNCT center, based on a proton accelerator, has been created by Helsinki University Hospital and Neutron Therapeutics Company; in UK the possibility to upgrade the existing accelerator is under consideration; in Italy a project exist with the aim to install at the National Hadron Therapy Center (CNAO), in Pavia, an RFQ based proton accelerator developed by National Institute of Nuclear Physics (INFN). A status report on BNCT European projects will be presented.