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Status Update of Cyclotron Laboratory at Institute for Nuclear Research and Nuclear Energy

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The Institute for Nuclear Research and Nuclear Energy is preparing to operate a high-power cyclotron for production of radioisotopes for nuclear medicine, research in radiochemistry, radiobiology, nuclear physics, solid state physics. The cyclotron is a TR24 produced by ASCI, Canada, capable to deliver proton beam in the energy range of 15 to 24 MeV with current as high as 400 uA. Multiple extraction lines can be fed. The primary goal of the project is the production of PET and SPECT isotopes as ^{18}F , ^{67}Ga , ^{68}Ga , $^{99\text{m}}\text{Tc}$, etc. This contribution reports the status of the project. Design considerations for the cyclotron vault will be discussed for some of the target radioisotopes. The research has been supported by the Bulgarian Science Fund under Contract No. DN 08/6, 13.12.2016.

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