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Cyclotron Center Bronowice in Kraków - the facility and main achievements

The Cyclotron Center Bronowice is the proton beam medical facility at the Institute of Nuclear Physics Polish Academy of Sciences devoted mainly to conduct hadron cancer therapy. Additionally it offers the possibility of using proton beams for nuclear physics research. The cyclotron delivers protons with the energy of 230 MeV which can be degraded to any energy down to 70 MeV using energy selector and then the proton beam can be sent to therapy rooms or to experimental hall.
The extensive research program conducted, mainly during weekends, concerns nuclear physics studies and performance of detectors. The experiments are selected, based on proposals, by the International Advisory Committee, composed of world-class nuclear physics experts. Some of them are supported by the EURO-LABs funds.
Among others, the main achievements are studies of gamma decay of proton induced collective excitations as giant quadrupole resonances or pygmy states, decay of stretched states, and evaluation of performance and capabilities of new detector concepts for the large scale facilities, e.g. CALIFA array for R3Be experiment at FAIR.

Work-package

WP2 - RIs for Nuclear Physics

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