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Test bench for measurements of the NOvA scintillator properties at JINR

NOvA experiment was built to study oscillation parameters –mass hierarchy, CP-violation phase in the lepton sector and θ23 octant –via νe appearance and νμ disappearance modes in both neutrino and antineutrino beams. New NOvA test bench was planned to construct at JINR. The main goal of this bench is to measure the NOvA scintillator properties namely α/β discrimination and Birk's coefficients for protons and other hadrons (quenching factors). This knowledge will be crucial for recovering the energy of hadronic part of primal neutrino interaction with scintillator's nuclei.

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