

The SHiP experiment at CERN.

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SHiP (Search for Hidden Particles) is a new general-purpose fixed target facility, being reviewed by the CERN SPS Committee and by the newly appointed "Physics Beyond Colliders" Working group. 400GeV proton beam extracted from the SPS will be dumped on a heavy target with the aim of integrating 2×10^{20} pot in 5 years. A dedicated detector, based on a long vacuum tank followed by a spectrometer and particle identification detectors, will allow probing a large variety of models with light long-lived exotic particles and masses below $O(10)$ GeV/ c^2 . Such particles are advocated to explain some of the largest open issues in Particle Physics, such as dark matter, neutrino masses and the baryon asymmetry of the Universe. Another dedicated detector will allow the study of tau neutrino cross-sections and will search for dark matter through their scattering on the atoms of the emulsion detector.