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【349】 BDF/SHiP at the SPS ECN3 high-intensity beam facility

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The SHiP experiment is a pioneering initiative proposed at the CERN ECN3 to establish a general-purpose fixed target facility. Its primary objective is to explore the Hidden Sector portals domain and the potential discovery of novel particles envisaged in extensions of the Standard Model with unprecedented sensitivity. The central aim of the SHiP experiment is to unveil the existence of Feebly Interacting Particles (FIP) within the mass spectrum below 10 GeV, by directing a high-intensity 400 GeV/c proton beam onto a hybrid thick target to probe elusive particles. In this talk I will discuss the experimental proposal and detector layout.

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