



Contribution ID: 215

Type: **Talk**

## **【355】 The proposed SHiP experiment**

*Thursday 30 August 2018 18:00 (15 minutes)*

SHiP is a new general purpose fixed target facility. In its initial phase, the 400 GeV proton beam extracted from the SPS will be dumped on a heavy target with the aim of integrating  $2 \times 10^{20}$  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 variety of models with light long-lived exotic particles and masses below  $\mathcal{O}(10) \text{ GeV}/c^2$ . The main focus will be the physics of the so-called Hidden Portals.

**Primary authors:** RODRIGUES CAVALCANTE, Ana Barbara (EPFL - Ecole Polytechnique Federale Lausanne (CH)); REDI, Federico Leo (EPFL - Ecole Polytechnique Federale Lausanne (CH))

**Presenters:** RODRIGUES CAVALCANTE, Ana Barbara (EPFL - Ecole Polytechnique Federale Lausanne (CH)); REDI, Federico Leo (EPFL - Ecole Polytechnique Federale Lausanne (CH))

**Session Classification:** Nuclear, Particle- & Astrophysics (TASK)

**Track Classification:** Nuclear, Particle- and Astrophysics (TASK)