

# Design of an electro-magnetic calorimeter for the SHiP experiment with shower direction reconstruction capability

*Tuesday 3 October 2017 17:10 (20 minutes)*

A status report about the options considered for the electromagnetic calorimeter for the Hidden Sector Detector of the SHiP experiment will be presented. A “cheap” sampling calorimeter is under design with an unusual requirement that it be able, standalone, to reconstruct the vertex and momentum of an unknown particle decaying into final states with only 2 or more photons, produced between 5 and 60 m upstream of the calorimeter.

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**Session Classification:** Prototypes, upgrades and concepts