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## Optimization of the light yield properties from scintillator tiles read out directly by silicon photomultipliers

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The scintillator tiles with direct readout by silicon photomultipliers (SiPM) have been studied. The impact of the surface in front of the SiPM on the light yield and its uniformity has been studied. The different geometries, including geometries with a dimple in front of the SiPM were studied. The tiles with the optimal dimple design show the quality of response comparable to the tiles with fiber readout. The direct-readout approach provides a reasonable way for the construction of supermultichannel calorimeters.

## **Presentation type**

Section talk (10+5 min)

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