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The dual-readout calorimeter module R&D using innovative 3D metal printing for future e+e- colliders

Innovative 3D metal printing technology has been recently improved and used widely in various fields for both basic science and high technology. The next generation methodology of the novel calorimeter, dual-readout calorimeter, is one of the candidates to achieve very high energy resolutions for both EM and hadronic particles in future e+e- colliders. Traditionally the module of the dual-readout calorimeter has been built by cutting the copper plates and stacking them. In this presentation, we present the advanced dual-readout calorimeter module R&D by the latest 3D metal printing to achieve a very fine and precise projective structure required for the future e+e- colliders.

Collaboration / Activity

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