

Forum on Tracking Detector Mechanics 2016 [↗](#)

Developments on the mechanics and cooling for the CLIC tracking detectors

- Speaker: Szymon Krzysztof Sroka (CERN)
- Status: Invited talk
- Abstract: The CLIC detector tracking system is currently composed of a vertex detector with three double-sided layers of silicon detectors in both the barrel and forward regions and of a silicon tracker consisting of six barrel layers and four/seven disks on the outer/inner tracker subsystems, respectively. The strict requirements in terms of material budget (2 x 0.2% X0 per vertex double layer and 1% X0 per tracker layer) require the development of novel low-mass support structures and non-conventional cooling solutions. This talk will present the support structures concepts that are currently being explored as well as first results from finite-element simulations and small-scale prototypes. Initial results from the studies on the feasibility of air cooling for the CLIC vertex detector will also be shown.
- Slides

This topic: [CLIC > ForumonTrackingDetectorMechanics2016](#)

Topic revision: r2 - 2016-06-06 - NaomiVanDerKolk1



Copyright &© 2008-2021 by the contributing authors. All material on this collaboration platform is the property of the contributing authors.

or Ideas, requests, problems regarding TWiki? use [Discourse](#) or [Send feedback](#)