

7th Beam Telescopes and Test Beams Workshop



Contribution ID: 30

Type: **not specified**

Secondary infrastructure for test beams

Wednesday 16 January 2019 10:20 (20 minutes)

While telescopes are often a core requirement to conduct a test beam experience shows that secondary infrastructure plays also a central role. Secondary infrastructure can be remote control and monitoring of power supplies and stages, positioning tables for telescopes as well as DUTs. Another important part of this secondary infrastructure are means to provide cooling of telescope planes as well DUTs. The ATLAS pixel detector test beam group had several iterations of cold boxes for DUTs since 2009. These employed different active cooling agents (chillers, peltier elements) or passive cooling (dry ice). The latest iteration reaches -40°C and has been used as a semi-permanent installation with the ACONITE telescope by several different detector groups. Some of the previous attempts will be presented and pros / cons discussed. A brief overview of other systems will be given as well.

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Session Classification: Facilities & Infrastructure