



Contribution ID: 100

Type: **not specified**

Intro to Beam Instrumentation and Diagnostics I

Monday, November 7, 2022 12:00 PM (1 hour)

Beam instrumentation and diagnostics combines the disciplines of accelerator physics with mechanical, electronic and software engineering, making it an extremely interesting field in which to work. The aim of the beam instrumentation physicist or engineer is to design, build, maintain and improve the diagnostic equipment for the observation of particle beams with the precision required to tune, operate and improve the accelerators and their associated transfer lines. This introduction is intended to give an overview of the instrumentation in use in modern accelerators and how they can be used to diagnose problems or improve machine performance.

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