



Contribution ID: 442

Type: **Parallel contribution**

## Novel Beam Diagnostics for Future HEP facilities

*Tuesday, August 9, 2011 5:30 PM (30 minutes)*

To meet the energy and luminosity requirements of future HEP machines, advances are required in accelerator instrumentation and technology in many diverse areas, such as: acceleration, component alignment and stability, fast timing instrumentation and optics, photocathodes, pulsed power components, photon detectors, halo monitors, collimators, lasers, insertion devices, noninvasive profile monitors, high resolution position monitors, trapped ion diagnostics, and feedback systems. We will discuss the prospects for these advanced diagnostic techniques with an emphasis on high impact technologies that can significantly enhance the performance and scientific output of future machines.

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**Session Classification:** Accelerator Physics

**Track Classification:** Accelerator Physics