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## **Beam loss mechanisms in Flash/Desy**

*Wednesday 6 June 2012 14:30 (30 minutes)*

The Free Electron Laser in Hamburg (FLASH) is based on a linac with superconducting RF technology. The linac is designed to produce high power electron beams. Loss of only a fraction of the beam can damage the machine.

Machine Protection System of FLASH controls modes of operation and prevents dangerous conditions. The Dark Current of the FLASH gun is the largest source of lost particles. Operational issues related to the FLASH gun dark current and dynamics of cavity beam loading will be presented.

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**Session Classification:** Beam loss mechanisms