

## **Vacuum layout of LCLS-II**

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SLAC National Accelerator Laboratory, a multipurpose laboratory for astrophysics, photon science, accelerator and particle physics research, is currently building the LCLS II X-ray laser machine. In the past years the SLAC vacuum group prepared, tested and assembled many of the beamline components and the activity is still in progress.

This presentation will go through the manufacturing and quality check processes, documentation and installation check lists that were developed or refined to meet the LCLS-II UHV and Particle Free requirements. In particular to meet the Particle Free requirements new equipment and facilities were acquired. The vacuum group worked to establish new procedures and made sure that selected personnel developed the requested skills, best practices and gained the experience necessary to complete a successful installation.