

LCLS-II Particle Free Vacuum System: assembly and commissioning

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The LCLS-II (Linac Coherent Light Source II), a revolutionary new X-ray laser, is currently operating at SLAC National Accelerator Laboratory. In the past years SLAC has operated and tested the capability of this new machine. This presentation gives a comprehensive overview of the accelerator vacuum systems state, performance, challenges, and potential relation with vacuum system and RF cavity performance. The presentation encompasses the preparation, testing, particle-free cleaning, assembly, and installation of ultra-high vacuum (UHV) components for the LCLS-II beamline, aimed at meeting the stringent requirements of LCLS-II.

Summary

Primary authors: LANZA, Giulia (SLAC National Accelerator Laboratory); COY, Robert (SLAC National Lab)

Presenters: LANZA, Giulia (SLAC National Accelerator Laboratory); COY, Robert (SLAC National Lab)

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