Contribution ID: **339** Type: **Contributed Oral**

C1Or4B-05: LCLS-II HE Cryogenic Distribution System Status

Monday 19 May 2025 17:15 (15 minutes)

LCLS-II HE project will increase the energy of the CW-SCRF linac from 4 to 8 GeV, enabling the photon energy range to be extended to at least 13 keV and potentially up to 20 keV at 1 MHz repetition rates. HE's Cryogenic Distribution System (CDS) will connect existing Cryoplant 1&2 to 23 new HE cryomodules. Reference designs have been completed for all components. Current status of the CDS will be discussed as well as challenges and lessons learned.

Authors: RAMA, Biren (SLAC National Accelerator Laboratory); KUMAR VEMULKAR, Katyayini (SLAC National Accelerator Laboratory); WANG, Renzhuo (SLAC National Accelerator Laboratory); KAMINSKY, Scott (SLAC National Accelerator Laboratory); KI, Taekyung (SLAC National Accelerator Laboratory)

Presenter: WANG, Renzhuo (SLAC National Accelerator Laboratory)

Session Classification: C1Or4B - Large Scale Cryogenic Systems II: Operation & Design II