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Leveraging Experience from Production, Commissioning & Early Operations of LCLS-II and HE for ILC

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The commissioning of LCLS-II, a superconducting linac upgrade to the world's first x-ray free-electron laser, is nearly complete following 10 years of SRF and FEL technology development. The technology used to build this upgrade significantly leveraged experience from EU-XFEL and ILC R&D. Here results from the production and commissioning of SRF cryomodules, primarily the cavities, will be discussed in the context of the requirements for ILC's superconducting linac. Early results from the LCLS-II-HE production, a further upgrade to bring the total beam energy to 8 GeV will be presented, including techniques used to reach high gradients and high Q0 simultaneously in the SRF cavities.

Primary author: GONNELLA, Dan (SLAC)

Presenter: GONNELLA, Dan (SLAC)

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