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RF System Conceptual Design for the LCLS-II CW, SCRF Linac

Tuesday, 13 May 2014 16:00 (30 minutes)

At SLAC, a 4 GeV, 1.3 GHz, CW, SCRF linac will be constructed for the LCLS-II project. About 7 kW of rf power will be required per cavity, which will allow operation at 16 MV/m with up to 300 uA beam currents. In the rf system design presented in the project CDR, each cavity in the upstream portion of the machine is powered by a solid state amplifier, while the bulk of the cavities are powered in groups of 48 by 300 kW klystrons. This paper describes these design choices and their related operations issues.

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