

Status of the the S-band RF Power System for the FERMI@Elettra Linac

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FERMI@Elettra is a single-pass linac-based FEL user-facility covering the wavelength range from 100 nm (12 eV) to 4 nm (310 eV) and is located next to the third generation synchrotron radiation facility Elettra in Trieste, Italy. The machine is presently under commissioning and the first FEL line (FEL-1) will be opened to the users by the end of 2012. The 1.5 GeV linac is based on S-band technology. The S-band system is composed of fifteen 3 GHz 45 MW peak RF power plants powering the gun, eighteen accelerating structures and the RF deflectors. This presentation provides a summary of the FERMI linac and reviews the S-band RF power plants and the performances results of the main subassemblies during the commissioning of the accelerator.

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