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The High Power RF System of the European XFEL

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The European XFEL requires twenty-seven high power RF stations at 1.3GHz capable of a peak RF power of 10MW at 1.37ms pulse duration and 10Hz repetition rate. Twenty-five RF stations supply RF power to one-hundred cryogenic modules each with eight nine-cell superconducting cavities. Two RF stations are reserved for the RF gun and one cryogenic module in the injector of the European XFEL. Each station consists of a HV modulator, pulse cables, pulse transformer, multi beam klystron, waveguide distribution and several other auxiliary components. This presentation describes the layout and status of the RF system for the European XFEL.

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