

First Experience at ELBE with the new 1.3 GHz CW RF-System based on 10kW Solid State Amplifiers

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With the expansion of the radiation source ELBE, a centre for high power radiation sources is being built between 2009 and 2014 at the Helmholtz Zentrum Dresden Rossendorf. One part of this program is to increase the beam current of the ELBE LINAC. In January 2012 each of the 10kW CW klystrons used to operate the superconducting cavities of ELBE since 2001 had been replaced by a pair of 10kW solid state amplifiers. The talk gives an overview on the new RF-system of ELBE and its performance.

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