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Very High Power Solid State Amplifiers in the Range of 50MHz to 1.3GHz of Industrial Design with Very High Efficiency

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A new series of solid-state RF amplifiers will be presented, which cover the frequency range from 50MHz to 750MHz with an output power of more than 100kW. The amplifiers are of industrial design regarding their space and maintenance requirements. They have been designed for the operation of Cyclotrons, Synchrotrons, Storage Rings and Linear Accelerators.

The specific design of the Cryoelectra Amplifiers can be extended to frequencies of 1.3 GHz and beyond. Their output power is scalable to several hundreds of kW. The new features of these amplifiers are the optimization of their efficiency by a remote adjustment of the P1- operation point to the required output power and an extraordinary low phase noise, which is important for the operation of Storage Rings.

Primary author: Dr PUPETER, Nico (Cryoelectra GmbH, Germany)

Presenter: Dr PUPETER, Nico (Cryoelectra GmbH, Germany)

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