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Experimental studies of stochastic cooling system for HESR

The High Energy Storage Ring (HESR) of the FAIR project at GSI Darmstadt will be very important for different scientific programs due to the modularized start version of FAIR. Stochastic cooling is one of the key components to fulfil the requirements of the different experiments. First original pickup and kicker of the HESR stochastic cooling system have been installed into the COSY accelerator at FZ Juelich. COSY is well suited to test the performance of the HESR stochastic cooling hardware at different energies and variable particle numbers. The results of the last stochastic cooling beam time will be presented as well as the first use of GaN based amplifiers in a stochastic cooling system. The HESR needs fast transmission-lines between PU and KI. Beside air-filled coax-lines, optical hollow fibre-lines are very attractive. First results with such a hollow fibre will be presented.

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