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Low energy electron cooler for NICA Booster

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BINP has developed an electron cooler to increase the ion accumulation efficiency in the NICA heavy ion collider booster (JINR, Dubna). Adjustment of the cooler magnetic system provides highly homogeneous magnetic field in the cooling section B trans/B long ≤ 4·10 -5 which is vital for efficient electron cooling. First experiments performed at BINP demonstrated the target current of 200 mA for cooling ions with injection energy of 3.2 MeV/u.

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