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## LEIR Electron Cooler

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For the LEIR project, a new cooler has been constructed in collaboration with BINP Novosibirsk. It will deliver up to 600 mA of electron current at an energy of 2.3 keV (corresponding to the lead ion energy of 4.2 MeV/u) and has the advantage that the radius and density profile can be varied to match the characteristics of the injected lead ion beam. The device was delivered at the end of 2004 and commissioning of the device began in November of this year with the first cooling of O<sup>4+</sup> ions just one day after having obtained a stable 200 mA electron beam.

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