



Beitrag ID: 12

Typ: Invited Talk

## CRYRING@ESR - Operational Performance and Limits of Electron Cooling

Donnerstag, 22. Januar 2026 17:00 (20 Minuten)

Electron cooling is the only means of ion-beam cooling available at CRYRING@ESR. For precision experiments on stored ions, the range of available beam parameters is thus confined by technical and physical limits of the electron cooler in addition to those of the ring itself. Since recommissioning of the cooler at GSI/FAIR, its availability has steadily improved and new technical capabilities have been added, though some challenges remain. In my talk, I lay out the present limits of cooler operation and performance regarding experiments with low- and highly charged ions. I also give an outlook onto plans to further push those limits in the future.

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**Sitzung Einordnung:** Session 2