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Typ: Talk

ESR Machine Performance During Beam Time 2025

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During the user run 2025 essentially all operation modes of the ESR were used and highlights will be presented: electron cooling, stochastic cooling, stacking, internal experiments and extracted beam experiments with beam delivery to CryRing and HITRAP. The new LSA control system is consolidated in the sense that it offers practically all operation modes covered by the decommissioned legacy system, and in addition offers with its large flexibility many options to improve and optimize ESR operation in future machine development periods. During 2025 several machine studies were executed making use of the improved features of the control system and results will be presented. The main goal is to improve the understanding of the machine optics, which will allow a more efficient setup and operation of the ESR for the users in the coming years. The presentation will conclude with an outlook to the 2026 user beamtime.

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