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Commissioning of NICA injection complex

Tuesday, October 21, 2025 12:00 PM (30 minutes)

Construction of the NICA collider is approaching to its end with the beam circulation in the collider rings expected by the beginning of 2026. Successful collider commissioning requires obtaining high intensity heavy ion beams in its injector string. The talk discusses up-grades of the injection complex aimed at radical increase of the injection complex intensity. In general, there are two major efforts. The first one is the beam accumulation in Booster with help of electron cooling; and the second one is a drastic reduction of beam loss in the course of beam acceleration. This work actually includes large number of different efforts ranging from solving simple engineering problems to the detailed measurements and correction of beam optics for all rings and transfer lines, optimization of beam acceleration, as well as optimization of beam accumulation with electron cooling.

Footnotes

Funding Agency

I have read and accept the Privacy Policy Statement

Yes

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