

Assembly and testing of regular sections of the beam chamber of the NICA COLLIDER

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The main requirement for the formation of vacuum conditions in charged particle accelerators is the reduction of particle losses on residual gas molecules. The rate of losses is determined by both the beam parameters and the composition of the residual gas. As the beam accelerates and accumulates in the accelerator chain, the requirements for the residual pressure change, so to maintain certain beam conditions in the collider, a pressure of about 10^{-9} Pa is required.

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