

Dilution cryostats for experiments with the frozen spin polarized target at particle accelerators

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The description of design and recent results of the horizontal cryostat for new Bonn frozen spin polarized target developing for the spin physics experiments with tagged photons from Bonn electron accelerator "ELSA" are given. In addition, overview of frozen spin polarized targets cooled by $^3\text{He}/^4\text{He}$ dilution refrigerators developed at the DLNP JINR since 1976 for different accelerators is given.

Summary

The team of the low temperature sector DLNP JINR has extensive experience in conducting experiments with polarized targets, as well as designing and manufacturing dilution cryostats. At the moment, polarized targets and cryostats developed by our team are located in the following cities: Dubna, Protvino, Gatchina, Prague, Mainz and Bonn.

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