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Internal targets for the PANDA Experiment

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The requirements for the internal target of the PANDA experiment at the future antiproton storage ring HESR/FAIR are manifold and change according to the different physics investigated in the proposed experiments. The most severe limitation comes from the requirement of being a very thin (dilute) and localized clump of matter within the ultra-high vacuum of the storage ring. In case of a gaseous target material the use of even the thinnest windows is prohibited. A solution for that can be realized by a jet of nano- to micro-sized condensed matter particles (clusters, droplets or pellets) traversing the stored antiproton beam. Therefore, to exploit the capacities of the PANDA experiment to a maximum it is foreseen to provide both a cluster-jet as well as a pellet target which will be installed alternatively depending on the experimental program to be investigated.

In this presentation both targets for PANDA will be presented and discussed.

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