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[524] Superconductor Shielding of Pb and Nb tubes for momentum sensitive measurements of neutral Antimatter

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We report on measurements and simulations on a superconductor tube in the presence of inhomogeneous magnetic fields in a cryogenic environment. The effect is studied using Hall sensors in a table top experiment. The suppression of external magnetic fields in a controlled manner is important for precision experiments in cryogenic environments in atomic physics and antimatter experiments. Also the effects of field trapping are discussed.

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