

A plan for antineutron-nucleus scattering experiments toward neutron-antineutron oscillation searches

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Neutron-antineutron oscillations, which violate both B and B-L, have attracted attention in the context of baryogenesis to explain the matter-dominated universe. In searches for the oscillations, the antineutron-nucleus scattering length is one of the important parameters. We plan to perform scattering experiments using low-energy antineutron beams at the CERN AD.

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