

Challenges of the world-wide experimental search for the electric dipole moment of the neutron



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Analytic models of shield-coupled coils

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Analytic models of current structures coupled to highly-permeable magnetic enclosures provide a useful conceptual guide, as well as a numerical benchmark, for the design of coils in the presence of passive magnetic shields. We present recent analytic results and discuss their application in the design of shield-coupled coils for proposed EDM experiments in Canada and Japan.

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