Anomalous Coupling Between Superfluid Vortices and Curvature
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Vortices in a thin film of superfluid helium on a curved surface are predicted to have
a long range interaction with the curvature of the surface. Vortices are trapped by
features of the surface with appropriate Gaussian curvature. The energetics will be
compared and the dynamics contrasted with those of particles experiencing a two
dimensional Coulomb force.

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