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Coulomb's law deviation in the Podolsky's electromagnetism

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Podolsky's electromagnetism is considered in Cavendish null test of Coulomb's law with two concentric spheres to derive an expression for calculating the ratio of the potential difference between the inner and outer spheres, and the potential of the latter one. Two scenarios are studied for the potential of the outer sphere: an alternating potential $V(t) = V_0 e^{i\omega t}$ and a static potential $V = V_0$.

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