## Medium-assisted Casimir–Polder Interaction between Chiral Molecules

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Using second-order perturbation theory with an effective Hamiltonian, we calculate the Casimir–Polder force between two ground-state chiral molecules at zero temperature in the presence of magnetodielectric bodies. In free space, the Casimir-Polder force has a small chiral component depending on both electric and magnetic transitions. With the presence of a material environment we find some highly symmetric configurations where the electric and magnetic contributions of the Casimir-Polder force cancel, making the chiral component the dominant contribution. This is achieved via magnetoelectric plates which exhibit chiral properties. The dominant chiral Casimir-Polder force is discriminatory with respect to enantiomers of different handedness.