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Casimir force computation technique for emerging materials

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The computation of Casimir forces between material bodies, in principle, requires frequency responses of the permittivities of the materials over a sufficiently wide range. However, particularly for many emerging materials such as Weyl semimetals, the permittivities in high frequencies are not yet known experimentally or accounted for in existing models. In this talk, a computation technique is presented to compute Casimir forces for materials that lack high frequency spectra of the permittivities.

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