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Lee-Wick field in presence of semi-transparent boundaries

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In this study I analyze the scalar and vectorial Lee-Wick field, achieving analytically the propagator and numerically the energy and force. It is analyzed the interaction between charge and a conductive plate, which simulates a semi-transparent mirror. For both cases, scalar and vectorial, the interaction force shows extrema points for finite values of the Lagrangian coupling parameters. The analysis of extrema cases shows that these parameters generate consistent results previously obtained.

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