

Abstract Submitted  
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**Precision Non-Contact Dynamic Measurement of Casimir Force between a Metallic Sphere and Semiconductor Plate** CHIA-CHENG CHANG, UMAR MOHIDEEN — A dynamic measurement of the Casimir force between a gold coated sphere and Si plate performed by using a high vacuum based short coherence light source interferometer will be presented. The comparison of results with Lifshitz theory will be discussed. The results will find application in the design of MEMS (Micro Electro-Mechanical Systems).

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