

Abstract Submitted  
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**Dynamic Precision Measurement of the Casimir Force Using Gold Surface** CHIA-CHENG CHANG, UC Riverside Physics Dept., UMAR MOHIDEEN — High precision dynamic Casimir force measurements between a gold coated sphere and plate are performed in UHV with short coherence length light source interferometer will be presented. A comparison to the theory using generalized Plasma and Drude model at room temperature will be discussed.

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