

Abstract Submitted  
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**Dielectric Response of Metallic Nanoclusters** AMY CASSIDY, University of Southern California, STEPHAN HAAS, A.F.J. LEVI — We study the dielectric function for metallic nanoclusters. The dielectric function is calculated from the eigenstates, using a tight-binding Hamiltonian. I will present our findings on the dependence of surface plasmon frequency and oscillator strength on the system size and geometry.

Amy Cassidy  
University of Southern California

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