
Excitation Plasmons Interband Transitions Electrons

excitation of plasmons and interband transitions by electrons - contents introduction 1 1. volume plasmons 4 1.1 general properties 4 1.2 the eigenfrequency of plasma oscillations 5 1.3 the dispersion relation. **plasmons dispersion and nonvertical interband transitions ...** - plasmons dispersion and nonvertical interband transitions in Bi_2Se_3 single crystals were investigated by electron energy-loss spectroscopy in conjunction with (scanning) transmission electron microscopy, (s)TEM-EELS. **interband transitions in semi-metals, semiconductors, and ...** - interband transitions in semi-metals, semiconductors, and topological insulators: a new driving force for plasmonics and nanophotonics johann toudert,1,2,* rosalia serna1 **on the coupling of the localized plasmon and interband ...** - interband transition [12,13], which can interact strongly with the plasmon excitation and give rise to new optical properties that are different than a simple linear combination of the two constituents [14-18]. **the role of plasmons and interband transitions in the ...** - the role of plasmons and interband transitions in the color of aul 2, ... a plasmon excitation is an important contributor to the optical properties of aul 2. in order to support this ... **photocatalytic conversion of CO to hydrocarbon fuels via ...** - transitions in the UV range,29!31 and thus Au nanoparticles themselves can also contribute to the photocatalytic activity of metal/semiconductor composites under UV radiation. **Cu nanoshells: effects of interband transitions on the ...** - the optical properties of metals arise both from optical excitation of interband transitions and their collective electronic, or plasmon, response. here, we examine the optical properties of Cu, whose strong interband **surface plasmons - photonics** - by definition surface plasmons are the quanta of surface-charge-density oscillations, but the same terminology is commonly used for collective oscillations in the electron density at the surface of a metal.

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