

## Dipole and Quadrupole Scattering of Ultra Short Pulses on Metal Nanospheres

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**Abstract :** The presentation is devoted to the theoretical analysis of ultrashort electromagnetic pulses (USP) scattering on metallic nanospheres in a dielectric medium in the vicinity of surface plasmon resonance due to excitation of dipole and quadrupole surface plasmons.

**Keywords :** surface plasmon, scattering, metallic nanosphere

**Conference Title :** ICOP 2015 : International Conference on Optics and Photonics

**Conference Location :** Barcelona, Spain

**Conference Dates :** August 17-18, 2015