



Contribution ID: 660

Type: **Talk (preferred)**

Optomechanics with Mie-resonant dielectric particles

We analyze optical force and torque on a dielectric cylinder in the field of an evanescent field which has linear momentum, gradients, non-zero spin density. Optomechanical response have resonant nature. Torque resonances strongly depend on the azimuthal number m .

Authors: TOFTUL, Ivan (Australian National University); KIVSHAR, Yuri (Australian National University)

Presenter: TOFTUL, Ivan (Australian National University)

Session Classification: Australian and New Zealand Conference on Optics and Photonics

Track Classification: ANZCOP: ANZCOP: Nanophotonics, metaoptics and plasmonics