



NATHANIEL P. HERMOSA 'Revisiting Reflection: Orbital Angular Momentum induced Beam Shifts'

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September 08, 2011

Seminar, September 8, 2011, 12:00. Seminar Room

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It is well known that a beam with a finite extent undergoes four beam shifts - two spatial shifts and 2 angular shifts, upon reflection.

These shifts can either occur simultaneously or separately depending on the polarization state, and the opening angle (divergence) of the beam, and on the nature of the reflecting surface. In my presentation, I will show experimental results that endowing the beam with

orbital angular momentum leads to coupling of these four shifts. Moreover, I will also present initial results that some of these shifts are also affected by the choice of the beams radial mode. Lastly, I will list some experiments that are still yet to be explored.

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Hosted by Prof. Juan P. Torres