NITheP cordially invites you to a seminar by:

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Date:        Wednesday 8\textsuperscript{th} of December 2010  
Time:        15:00  
Venue:       NITheP Stellenbosch Seminar room

**TITLE:** Singular optics, vortices, and nonlocal nonlinearities

**ABSTRACT:** This talk will introduce the field of singular optics and discuss the basic properties and experimental observations of optical vortices—optical beams carrying phase singularities. Optical vortices can appear in the linear media, through wave interference, or in nonlinear media, in the form of self-trapped soliton beams with nontrivial phases. Many of such vortex beams become stable in nonlinear media with nonlocal response.

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