NITheP and the Physics Cluster cordially invite you to a seminar by:

**Christian Vetter**  
*Friedrich-Schiller-Universität Jena, Germany*

**Date:** Monday, 9th February 2015  
**Time:** 14h30 – 15h30  
**Venue:** NITheP Seminar Room, H-Block, 3rd Floor

**TITLE:** Generalized Radially Self-Accelerating Helicon Beams

**ABSTRACT:**
A new class of optical beams will be presented that show a radially self-accelerating and non-diffracting behaviour. These beams continuously evolve along spiralling trajectories while maintaining their amplitude and phase distribution in their rotating rest frame. A detailed insight into the theoretical origin and characteristics of radial self-acceleration will be provided and shown to be experimentally feasible. Our work generalizes the study of classical Helicon Beams to a complete set of solutions for rotating complex fields.

*Coffee and biscuits will be served after the talk*