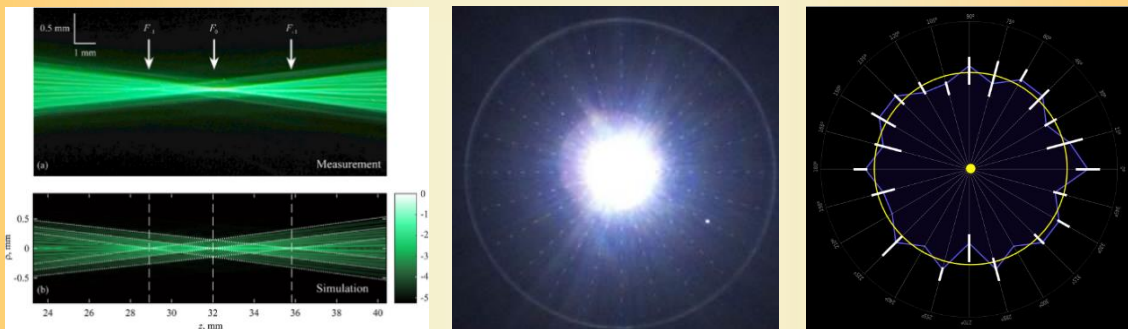


Terça-Feira, 30 de Maio às 15h  
Auditório da Escola de Ciências

## Physical Origin and Perceptual Aspects of Light Disturbances

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**Resumo:** Light disturbances (LD) are commonly felt by persons affected with optical imperfections of the refracting surfaces or the eye. These are generally caused by trauma, surgery, ocular disease and ageing. Quantification of LD has been challenging but can now be accomplished using commercial and prototype medical devices.

Research coupling physical analysis with subjective evaluation points towards a habituation process that assumes the presence and severity of the symptoms thought they become gradually less bothersome. LD has been quantified in laboratory and clinical settings unveiling some relevant aspects as binocular attenuation, constancy overtime after implantation of intraocular lenses and significant reduction in subjects with primary or post-surgical corneal deformations treated with special contact lenses.

The present lecture will explore the optical and visual phenomena, its impact in subject's quality of life related to vision and the potential paths to improve our knowledge of etiology, accurate quantification and clinical management in the context of the activities of the Clinical and Experimental Optometry Research Lab (CEORLab-CFUM).