



Universidade Federal da Paraíba
Centro de Ciências Exatas e da Natureza
Programa de Pós-Graduação *Stricto Sensu* em Física

Colóquio

“Laboratory and Astrophysical Constraints on an Axion”

RESUMO: Axion is light pseudoscalar elementary particle. It explains why there are no strong CP violation and large electric dipole moment of a neutron in QCD. Axions are also considered as the most probable constituents of dark matter in astrophysics and cosmology. In spite of many attempts made until now, axions are not yet discovered experimentally. We discuss the most important axion searches in both laboratory and astrophysical experiments. Special attention is paid to constraints on the parameters of axions obtained from experiments on measuring the Casimir interaction.

Prof. Dr. Vladimir M. Mostepanenko Russian Academy of Sciences/Great St.Petersburg Polytechnic University
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10/jun/2016	16h00
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Auditório da Pós-Graduação em Física (novo prédio)	
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