

PRISMA+ Colloquium

May 9, 2018 at 1 p.m.
Lorentz-Raum 05-127, Staudingerweg 7

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The quantum vacuum from the point of view of non linear electrodynamics

I will first give the description of a quantum vacuum in the framework of non linear electrodynamics. I will further discuss the phenomena that are predicted because of the fact that non linear electrodynamics allows the photon-photon scattering. Some of these phenomena can be tested by astrophysical observations and/or by laboratory experiments. I will finally conclude giving the state of the art of the Toulouse BMV (Birefringence Magnétique du Vide) experiment whose goal is to observe for the first time vacuum magnetic birefringence.