

Optics of the Quantum Vacuum

Casimir force

Radiative heat flux at nanoscales

Abraham-Minkowski Controversy

Casimir momentum

Casimir-Polder interactions

Casimir mass & Cosmological constant

Lamb shift

Quantum friction

magneto-birefringence of the vacuum

October 15, 2010, Maison des Magistères (Polygone CNRS Grenoble), 9h-16h

Organizers: Bart van Tiggelen (LPMMC) and Geert Rikken (LNCMI)

Inscription is free but please register in advance with michele.peretto@grenoble.cnrs.fr.

09h00-09h45 Diego Dalvit (Los Alamos)

Engineering Casimir interactions with metamaterials

9h45 -10h30 Yver Brevik (Trondheim)

Some remarks on the Abraham-Minkowski Controversy

10h30-11h00 Coffee break

11h00 - 11h45 Marcus Sparnaay (Philips Eindhoven)

The History of the Casimir effect (and the first experiment)

11h45 - 12h15 Geert Rikken (LNCMI)

Magneto-electro birefringence of the quantum vacuum

12h30 -13h30 lunch offered by CTPG

13h30-14h15 Serge Reynaud (LKB)

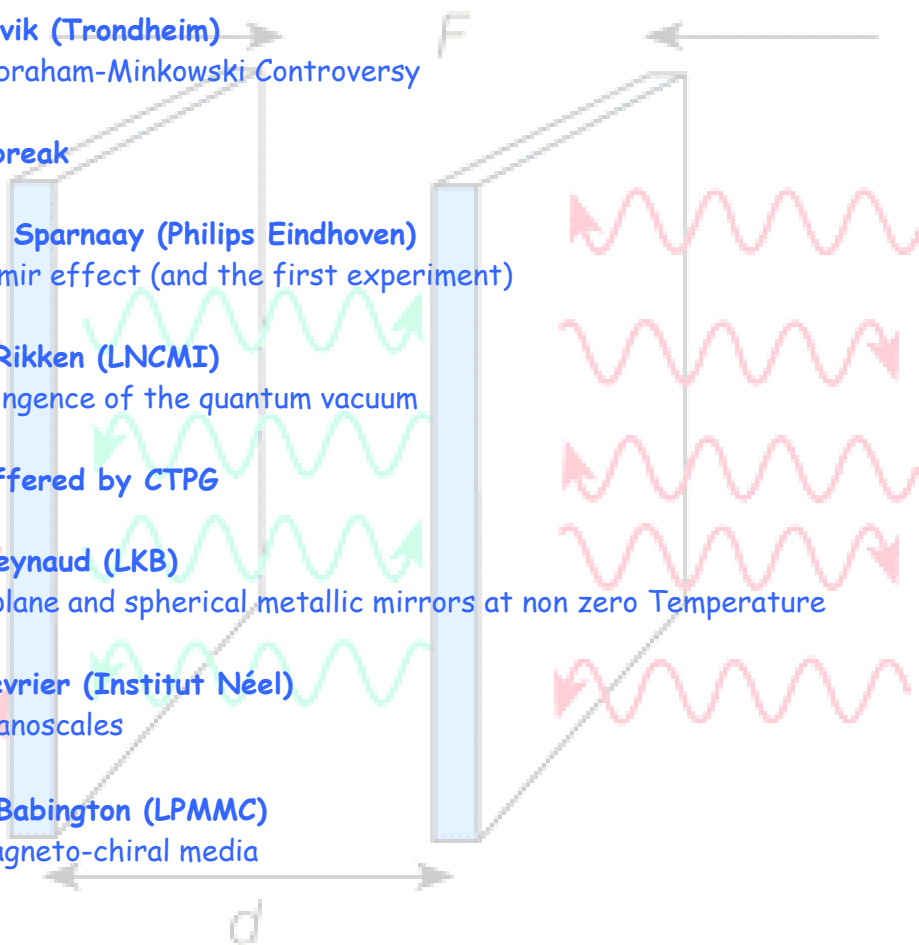
Casimir force between plane and spherical metallic mirrors at non zero Temperature

14h15-14h45 Joel Chevrier (Institut Néel)

Radiative heat flux at nanoscales

14h45- 15h15 James Babington (LPMMC)

Casimir momentum in magneto-chiral media



Photonimpuls

