Contribution ID: **101** Type: **Oral (Student, Not in Competition) / Orale (Étudiant(e), pas dans la compétition)**

# The Continuum Limit of the Unruh Effect in a Cavity

*Wednesday, 18 June 2014 09:30 (15 minutes)*

Building on previous numerical non-perturbative studies of the Unruh effect on a harmonic-oscillator-detector in a cavity, we seek to explain the nuances involved in taking the continuum limit of an Unruh-DeWitt detector as the cavity becomes large. While we have previously replicated the linear dependence of temperature on acceleration, here we will discuss how in the continuum limit the slope of this dependence will converge to $1/2\pi$, with vanishing constant term. Our ability to directly examine the detector's thermality will guide us towards a resolution.

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**Session Classification:** (W1-4) Fields and Strings - DTP / Champs et cordes - DPT

**Track Classification:** Theoretical Physics / Physique théorique (DTP-DPT)