SEMPARIS – Séminaires en région parisienne

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Particle Physics at LPTHE

Mardi 30 Avril 2024, 14 :00
LPTHE, Library
Domaines : hep-ph

Titre : *Supercooled phase transitions and baryogenesis*

Orateur : **Iason Baldes (LPENS)**

Résumé : *I will present a baryogenesis mechanism in which the asymmetry is sourced from heavy particles which either gain their mass or are created during bubble expansion in a strong first order phase transition. These particles then decay in a CP and baryon number violating way inside the bubble. I will discuss the key differences with the well studied electroweak baryogenesis scenario. I will also discuss the scenario within the context of recent progress in particle, primordial black hole, and gravitational wave production during supercooled phase transitions.*