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## Baryogenesis from bubble collisions

*lundi 19 mai 2025 16:15 (30 minutes)*

In this talk I will discuss particle physics scenarios connecting baryogenesis with first order phase transition. In particular, I will focus on the scenario wherein the CP violation required for baryogenesis is produced by the collision of true vacuum bubbles. I will elaborate both on the case where the right handed neutrino responsible for lepton number violation is produced on-shell as well as on the case where it is produced off-shell. Finally I will present concrete particle physics models realizing this scenario.

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