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## Theoretical Physics Seminar Series

# Bubble wall velocity at strong coupling

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**Abstract:** The bubble expansion velocity is an important parameter in the prediction of gravitational waves from first order phase transitions. This parameter is difficult to compute due to its out-of-equilibrium nature, and it is even harder in strongly coupled theories. In this talk, I will present progress made in this direction and the study of the dynamics of bubbles using holography. Motivated by these models, I will present a method to estimate the wall speed for phase transitions with a large jump in degrees of freedom and use it to show the effect of a limited supercooling on the velocity and its consequences for the spectrum.

**Prof. A. Chamorro Seminar Room, Theoretical Physics Seminar Room**

**Wednesday, Feb. 21st, 2024**

**Time: 11:40 am**