

Bubble wall velocities in local thermal equilibrium

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It is commonly expected that a friction force on the bubble wall can only arise from out-of-equilibrium effects. In this talk, I will discuss the bubble wall motion in local thermal equilibrium. We show that there is a nonvanishing effective friction on the wall in local thermal equilibrium provided that the plasma temperature distribution is inhomogeneous across the wall. Further, we propose a new matching condition from local entropy conservation. With this, we are able to determine bubble wall velocities in local thermal equilibrium in a model-independent way.

Primary author: AI, Wen-Yuan (King's College London)

Presenter: AI, Wen-Yuan (King's College London)