

Abstract Submitted
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The intrinsic structure of liquid interfaces¹ MARCELLO SEGA, University of Vienna, Austria, PAL JEDLOVSZKY, Department of Chemistry, EKF, Eger, Hungary, BALAZS FABIAN, Institut UTINAM, Universite de Franche-Comte, Besancon, France, GEORGE HORVAI, Budapest University of Technology and Economics, Budapest, Hungary — Thermal capillary waves develop spontaneously at fluid/fluid interfaces, and modulate their shapes on scales much larger than the molecular one, thus smearing any density profile measured or calculated using only a global coordinate system². In this contribution we present a local picture of several thermodynamic quantities (density, energy, free energy, surface tension) at liquid/vapour interfaces, analyzing them both on a molecular layer-by-layer basis³, and as a function of the intrinsic distance from the interface⁴, revealing their true, intrinsic structure.

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