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current research into the behaviour of liquids under negative pressure.

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Biological and technological processes that involve liquids under negative pressure are vulnerable to the formation of cavities. Maximal negative pressures found in plants are around –100 bar, even though cavitation in pure bulk water only occurs at much more negative pressures on the relevant time scales. Here, we investigate the influence of small solutes and lipid bilayers, both constituents of all biological liquids, on the formation of cavities under negative pressures.

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Condensed matters can be expanded into negative pressure states. Although these states are metastable, their long life-time makes them appropriate for experimental investigations. Some relevant behaviour of liquids and solids under negative pressure will be reviewed.

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The phase diagrams of these systems close to zero pressure are usually smooth extension of the region of the phase diagram at positive pressure, however, at large negative pressures unexpected behaviour can appear: the liquids can reach the liquid-vapour instability line (spinodal), i.e. the liquid-liquid phase diagrams cannot be extended to arbitrarily low pressures, they have to terminate before crossing the spinodal.

Phase Equilibrium in Complex Liquids under Negative Pressure

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