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## Cavitation and bulk viscosity

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It has been show that hydrodynamic models provide an effective, phenomenological description of the QGP. The framework of hydrodynamics allows the occurrence of interesting phenomena like cavitation. Cavitation, in general, is the phase change from the liquid to the gaseous phase caused by a pressure drop. First, one way of defining cavitation for relativistic hydrodynamics is presented. Afterwards, by using this previously defined concept, it is possible to constrain the maximum value of the bulk viscosity over entropy density  $\zeta/s$ , a value that is currently not easily accessible by other methods. Although bulk viscosity exists only in non-conformal fluids, this approach can be justified as a small perturbation to a conformal fluid setup. Numerical and analytical methods are discussed, and the results are compared with known cases.

## On behalf of collaboration:

None

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