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Gravitational wave production: the interplay between vortical and compressional motions

In the early Universe, during a phase transition, the surrounding plasma is subjected to a fluid motion sourcing gravitational waves. This fluid motion can be composed of compressional and vortical motions. Most of the time, they are considered distinct and studied independently. However, by analyzing the UETC of the anisotropic stresses, a mixed term combining vortical and compressional motions leads to another contribution to gravitational wave production.
In this presentation, the interplay between the two motions will be at the heart of the discussion.

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