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## Quantum field theory of fluids

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I discuss the quantization of a perfect fluid. This differs from textbook quantum field theory, because of the presence of vortex modes, which map to an infinite collection of quantum mechanical free particles rather than harmonic oscillators. As a result, the theory is plagued by infra-red divergences. I argue that there exists, nevertheless, a consistent effective field theory description, valid at large distances and times.

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