## 24th Australian Institute of Physics Congress



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## An Interaction Quench Heat Engine Using a One-Dimensional Bose Gas

Tuesday 13 December 2022 18:45 (15 minutes)

We theoretically investigate the performance of an interaction-driven many-body quantum heat engine with a working medium consisting of an experimentally realisable, harmonically trapped one-dimensional Bose gas, exploring the entire phase diagram.

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