

# Linear sound has asymptotic symmetries

and a whole infrared triangle

General relativity, electrodynamics, and many other relativistic theories display **memory effects**. This is a general property of the wave equation itself. In particular, **acoustics admits a memory effect**. By writing sound in terms of a **dual two-form field**, we showed how this memory effect can be connected to **asymptotic symmetries** and a soft theorem.

Níckolas de Aguiar Alves and A. G. S. Landulfo. “Sound as a gauge theory and its infrared triangle”. arXiv: 2512.15796 [hep-th].

