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Aspects of Relativistic and Carrollian fluids

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We study Carrollian hydrodynamics on arbitrary backgrounds by employing two distinct but complementary paths. The first one is Carrollian diffeomorphism invariance while the second one consists in analyzing the relativistic fluid equations at small speed of light. The results of the method agree, but the second approach is superior as it effortlessly captures more elaborate situations with multiple degrees of freedom.

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