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Dirac Hydrodynamics

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We present the relativistic version with spin of quantum mechanics written in terms of hydrodynamic variables: in this way the Dirac theory is converted into a form that does not involve the selection of any representation nor the choice of any frame. Such a re-formulation is necessary to visualize concepts of quantum mechanics, and it is also important for No-Go theorems where a choice of frame could reduce their validity.

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