

General Theory of Relativity under the Monad Formalism and its comparison with the ADM approach

The present work exposes the Monad Formalism, which allows to characterize the frames of reference by tensor magnitudes, called physical-geometric tensors, and their relations with the metric tensor of space-time in the General Theory of Relativity (GTR). The invariances of the Monad Formalism are analyzed and the $3 + 1$ foliation of the space-time is developed, which allows the Hamiltonian formulation of the GTR. This formulation is compared to the ADM formalism.

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