

## Observers diffeomorphism-invariant description of a general relativistic system

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I will present a construction of observables following naturally from an introduction of an observer into a relativistic theory. The observables are invariant under a large class of spatial diffeomorphisms. I will discuss the description of the theory in terms of spatial-diffeomorphism-invariant degrees of freedom. The talk will be based on [1].

*References*

[1] P. Duch, W. Kaminski, J. Lewandowski and J. Swieżewski, *Observables for General Relativity related to geometry*, arXiv:1403.8062 [gr-qc].

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