



## Hamiltonian Analysis of Non-Relativistic Covariant RFDiff Horava-Lifshitz Gravity

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We perform the Hamiltonian analysis of non-relativistic covariant Horava-Lifshitz gravity in the formulation presented recently in arXi v:1009.4885. We argue that the resulting Hamiltonian structure is in agreement with the original construction of non-relativistic covariant Ho\ $v\{r\}$ ava-Lifshitz gravity presented in arXiv:1007.2410. Then we extend this construction to the case of RFDiff invariant Ho\ $v\{r\}$ ava-Lifshit z theory. We find well behaved Hamiltonian system with the number of the first and the second class constraints that ensure the correct num ber of physical degrees of freedom of gravity.

存档文本

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