**High Energy Physics - Theory** 

## **Extended Horava gravity and Einstein-aether theory**

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(Submitted on 27 Jan 2010)

Einstein-aether theory is general relativity coupled to a dynamical, unit timelike vector. If this vector is restricted in the action to be hypersurface orthogonal, the theory is identical to the IR lin of the extension of Horava gravity proposed by Blas, Pujol\`{a}s and Sibiryakov. Hypersurface orthogonal solutions of Einstein-aether theory are solutions to the IR limit of this theory, hence numerous results already obtained for Einstein-aether theory carry over.

Comments: 4 pages

Subjects: High Energy Physics - Theory (hep-th); General Relativity and Quantum Cosmology (gr-qc)

Cite as: arXiv:1001.4823v1 [hep-th]

## Submission history

From: Theodore A. Jacobson [view email] [v1] Wed, 27 Jan 2010 04:48:46 GMT (11kb)

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