

General Relativity and Quantum Cosmology

Stability of the Einstein static universe in modified theories of gravity

Christian G. Boehmer, Lukas Hollenstein, Francisco S. N. Lobo, Sanjeev S. Seahra

(Submitted on 8 Jan 2010)

We present a brief overview of the stability analysis of the Einstein static universe in various modified theories of gravity, like $f(R)$ gravity, Gauss-Bonnet or $f(G)$ gravity, and Horava-Lifshitz gravity.

Comments: 3 pages, submitted to the Proceedings of the Twelfth Marcel Grossmann Meeting on General Relativity

Subjects: **General Relativity and Quantum Cosmology (gr-qc)**

Cite as: [arXiv:1001.1266v1](#) [gr-qc]

Submission history

From: Christian Boehmer [[view email](#)]

[v1] Fri, 8 Jan 2010 13:11:48 GMT (14kb)

[Which authors of this paper are endorsers?](#)

Download:

- [PostScript](#)
- [PDF](#)
- [Other formats](#)

Current browse context:

gr-qc

[< prev](#) | [next >](#)

[new](#) | [recent](#) | [1001](#)

References & Citations

- [SLAC-SPIRES HEP](#)
([refers to](#) | [cited by](#))
- [CiteBase](#)

Bookmark([what is this?](#))

[CiteULike logo](#)

[Connotea logo](#)

[BibSonomy logo](#)

[Mendeley logo](#)

[Facebook logo](#)

[del.icio.us logo](#)

[Digg logo](#)

[Reddit logo](#)