

Cornell University Library

arXiv.org > gr-qc > arXiv:1107.1840

Conformal invariance of curvature

General Relativity and Quantum Cosmology

Search or Article-id

All papers

(Help | Advanced search) Go! 6

Download:

- PDF
- PostScript
- Other formats

Current browse context:

gr-qc

< prev | next >

new | recent | 1107

Change to browse by:

astro-ph astro-ph.CO hep-ph hep-th

References & Citations

- INSPIRE HEP (refers to | cited by)
- NASA ADS

Bookmark(what is this?)



perturbation

Jinn-Ouk Gong, Jai-chan Hwang, Wan II Park, Misao Sasaki, Yong-Seon Song

(Submitted on 10 Jul 2011)

We show that in the single component situation all perturbation variables in the comoving gauge are conformally invariant to all perturbation orders. Generally we identify a special time slicing, the uniform-conformal transformation slicing, where all perturbations are again conformally invariant to all perturbation orders. We apply this result to the delta N formalism, and show its conformal invariance.

Comments: 15 pages, 1 figure Subjects: General Relativity and Quantum Cosmology (gr-gc); Cosmology and Extragalactic Astrophysics (astro-ph.CO); High Energy Physics -Phenomenology (hep-ph); High Energy Physics - Theory (hep-th) Report number: CERN-PH-TH/2011-123, YITP-11-57 Cite as: arXiv:1107.1840v1 [gr-qc]

Submission history

From: Jinn-Ouk Gong [view email] [v1] Sun, 10 Jul 2011 07:22:14 GMT (62kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.