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Search or Article-id (Help | Advanced search) arXiv.org > astro-ph > arXiv:1107.5020 - Go! All papers Astrophysics > Cosmology and Extragalactic Astrophysics Download: PDF On the redundancy of operators PostScript Other formats and the bispectrum in the most Current browse context: general second-order scalarastro-ph.CO < prev | next > tensor theory new | recent | 1107 Change to browse by: Sebastien Renaux-Petel astro-ph gr-qc (Submitted on 25 Jul 2011 (v1), last revised 7 Mar 2012 (this version, v2)) hep-th In this short note we explain how to use the linear equation of motions to **References & Citations** simplify the third-order action for the cosmological fluctuations. No field **INSPIRE HEP** redefinition is needed in this exact procedure which considerably limits the (refers to | cited by) range of independent cubic operators, and hence of possible shapes of the NASA ADS primordial bispectrum. We demonstrate this in the context of the most general Bookmark(what is this?) single-field scalar-tensor theory with second-order equations of motion, whose 📃 🐵 X 🔜 🖬 🖬 🚽 📆 🧐 third-order action has been calculated recently in arXiv:1107.2642 and 1107.3917. In particular, we show that the three cubic operators initially

Physics - Theory (hep-th) Cite as: arXiv:1107.5020 [astro-ph.CO] (or arXiv:1107.5020v2 [astro-ph.CO] for this version)

expressed in terms of standard k-inflationary operators.

pointed out in these works as new compared to k-inflation can actually be

Comments: 9 pages. Wordings changed; matches version published in JCAP

Cosmology and Extragalactic Astrophysics (astro-ph.CO);

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## **Submission history**

Subjects:

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Which authors of this paper are endorsers?

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