

# Iso-curvature fluctuations in modulated reheating scenario

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K.Kamada, K.Kohri and SY:1009.1979

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# A new probe of the physics of the early Universe

=> Primordial non-Gaussianity of curvature fluctuations

If the “local-type” non-Gaussianity can be detected, it implies the existence of multi-light scalar field other than inflaton.



(which have quantum fluctuations)

the existence of iso-curvature fluctuations

(source of present dark matter/baryon iso-curvature fluctuations)

Some relation between the non-Gaussianity and the iso-curvature fluctuations ??

We consider gravitino dark matter scenario/Affleck-Dine baryogenesis in modulated reheating scenario which is one of the models of generating large non-Gaussianity.