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Cosmological nonlinear density and velocity power spectra

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We present the leading order nonlinear density and velocity power spectra including the vector- and tensor-type perturbation simultaneously excited by the scalar-type perturbation in nonlinear order.

Concerning density and velocity perturbations of the pressureless matter in perturbation regime well inside of matter-dominated epoch, we show that pure Einstein's gravity contributions appearing from the third order are entirely negligible in all scales.

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