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Cosmological perturbations beyond the linear order

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In this talk I will present the specific solution to the second-order cosmological perturbation theory. For the background I will consider any Friedmann-Lemaitre-Robertson-Walker model filled with a dust, and a positive cosmological constant. The presented model is a generalization of the previous results obtained with Krzysztof Głód where the background was the Einstein-de Sitter spacetime. Here, I investigate the case of the spatially non-flat background and a positive cosmological constant.

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