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Simple inhomogeneous cosmological model in the context of back reaction

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I present the cosmological model which approximates the periodically distributed dust overdensities on the Einstein-de Sitter background.

The model construction enables application of the Green-Wald averaging scheme and the Buchert averaging technique simultaneously.

The comparison of the angular diameter distance obtained within the presented model and the angular diameter distances for the respective average space-times is given.

Author: SIKORA, Szymon (Jagiellonian University)

Co-author: Dr GŁÓD, Krzysztof (Jagiellonian University)

Presenter: SIKORA, Szymon (Jagiellonian University)

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