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The Big Silence

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The so-called state of silence has been obtained as a possible consequence of deformed space-time structure in the models of loop quantum gravity. The purpose of the talk is to provide up to date status of the state of silence in cosmology. Our attention will be focused on discussing possibility of solving various cosmological problems employing the state of silence. In particular, the initial value problem including the issue of initial homogeneity will be discussed. Generation of cosmological perturbations and the possible non-Gaussian contributions will be analyzed. Furthermore, our current fundamental understanding of the state of silence and the associated change of signature will be presented.

Author: MIELCZAREK, Jakub (Jagiellonian University)

Presenter: MIELCZAREK, Jakub (Jagiellonian University)

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