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Non-singular quantum cosmological models

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Friedmann-Lemaitre-Robertson-Walker quantum cosmological models are studied in the causal interpretation of quantum mechanics. We show some results as the resolution of the singularity when a flat Universe is filled with non interacting dust and radiation. For the case of a massless free scalar field we study gaussian superpositions of the solutions of the Wheeler-DeWitt equation, obtaining a planar dynamical system in which a diversity of quantum bohmian trajectories are obtained. Among them, there are bouncing trajectories representing non-singular universes.

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