

Quantum Nothing before Big Bang

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In a way inspired by the Roger Penrose's paper "Before the Big Bang" (Proc. of EPAC 2006, pp. 2759 - 2762 (2006)), the quantized Big-Bang/Big-Crunch (BBC) phenomenon will be discussed via a phenomenological, drastically simplified while mathematically still tractable cryptohermitian toy models. Several important conceptual questions will be addressed, like the problem of a consistent description of a time-dependent spatial geometry near the hypothetical singularity, or of making the Universe unobservable (or, in general, dimension-changing) before Big Bang and/or after Big Crunch.