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Two-step Multiverse production

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We discuss evolution of 4-dim manifold endowed by 2-dim compact extra dimensions. The first step is finished by de-Sitter stage at high energies. The quantum fluctuations destroy initial symmetry of extra space metric producing a wide range of the initial extra metrics in causally disconnected regions (pocket universes) of the Multiverse during the second step. This set of different extra metrics evolves to a final set. The symmetry and form of each final extra metric is specific for each pocket universe. The low energy physics appears to be different in different pocket universes. The numerical estimation of the probability of finding a specific metric is based on the model of compact 2-dimensional extra space.

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