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Geometry of Cosmological Correlators

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We study correlators of a class of scalar toy models in cosmological background. These can be computed from the so-called wavefunction of the universe which in turn is given by the canonical form of the cosmological polytope. We find that a simple geometrical operation on the cosmological polytope gives a geometry whose canonical form gives the correlator. We initiate the study of its boundary structure and triangulations identifying new set of soft limits and positivity bounds.

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