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Consistent discretization of classical and quantum Regge Calculus
JORGE PULLIN, Louisiana State University, RODOLFO GAMBINI, University of the Republic of Uruguay — We apply the "consistent discretization" approach to Regge Calculus. As a consequence, one can construct a consistent well defined canonical theory for it. This would, in particular, allow the introduction of a natural measure in the path integral quite different from the usual ones. We apply the technique to a concrete example in 2+1 dimensional gravity.

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