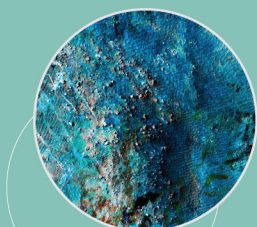




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From loop quantum gravity to cosmology: the 2-vertex model

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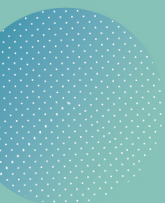
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Abstract

We show that the $U(N)$ -symmetry reduction of the loop-quantum-gravity truncation known as the 2-vertex model provides the effective improved dynamics of loop quantum cosmology with an arbitrary perfect barotropic fluid content.

