

## Unraveling the Particle World and the Cosmos at Berkeley—Workshop in Honor of Lawrence Hall and Hitoshi Murayama



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### Loop-String-Hadron on Maximal Trees

We explain how to extend the Loop-String-Hadron formalism for hamiltonian lattice  $SU(2)$  gauge theory to general graphs. We apply this formalism to provide a loop interpretation to the maximal tree gauge-fixing procedure, providing a fully gauge fixed version of the theory. This has potential applications for quantum simulations of the theory.

#### Title

#### Abstract

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