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Jesús Fernando Barbero González: The Husain-Kuchar model as the Carrollian limit of the Holst action

Thursday, May 7, 2026 5:55 PM (1 hour)

The Husain-Kuchar model is a useful auxilliary theory in the context of Loop Quantum Gravity. Its Hamiltonian formulation shares the same phase space as the Ashtekar formulation for General Relativity. In this talk I will show how this model can be understood as the Carrollian limit of the Holst action. This explains in a neat way some of its dynamical features and suggests other related models that may be useful to understand General Relativity.