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Department of Theoretical Physics

THE QUANTUM SPACETIME SEMINAR SERIES

Quantization of the Zigzag Model

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Zoom link shall be shared separately

The zigzag model is a relativistic integrable N-body system describing the leading high-energy semiclassical dynamics on the worldsheet of long confining strings in massive adjoint two-dimensional QCD. I will discuss quantization of this model. I will demonstrate that to achieve a consistent quantization of the model it is necessary to account for the non-trivial geometry of phase space. The resulting Poincaré invariant integrable quantum theory is a close cousin of $T\bar{T}$ deformed models.

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