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Mechanization of scalar field theory in 1+1 dimensions (Part 1)

Friday, 9 June 2023 14:00 (15 minutes)

We want to present a version of a general-purpose collective coordinate model that aims to fully map out the dynamics of a single scalar field in $(1+1)$ - dimensions. This is achieved by a procedure that we call a 'mechanization': we reduce the infinite number of degrees of freedom down to a finite and controllable number by chopping the field into flat segments connected via joints.

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Session Classification: Lightning Talks