

# Spicy Gluons (胶麻) 2025: Workshop for Young Scientists on the quark-gluon matter in extreme conditions

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## Gluon Mass Separation from Machine Learning

*Saturday 2 August 2025 16:55 (20 minutes)*

In this work, we have applied artificial neural networks to model the mass functions of chromo-electric and chromo-magnetic gluons separately within the quasi-particle framework. By using a dual residual network architecture with appropriate regularization, we were able to reproduce lattice QCD thermodynamic data with good accuracy.

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