



Contribution ID: 83

Type: **not specified**

## Negative C-Parity Charmonium Resonances in Lattice QCD

*Thursday 18 December 2025 11:00 (30 minutes)*

Recent experimental progress in meson spectroscopy has revealed numerous resonant states that do not fit the conventional quark model, leading to a plethora of theoretical and phenomenological models being proposed to explain their existence. However, to move beyond phenomenology and achieve a model-independent understanding, one must turn to QCD itself. In this talk, I will review the fundamentals for obtaining scattering amplitudes from lattice QCD data, and I will present our results of the negative C-parity charmonium spectrum.

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**Session Classification:** The Cheshire Lat-tice