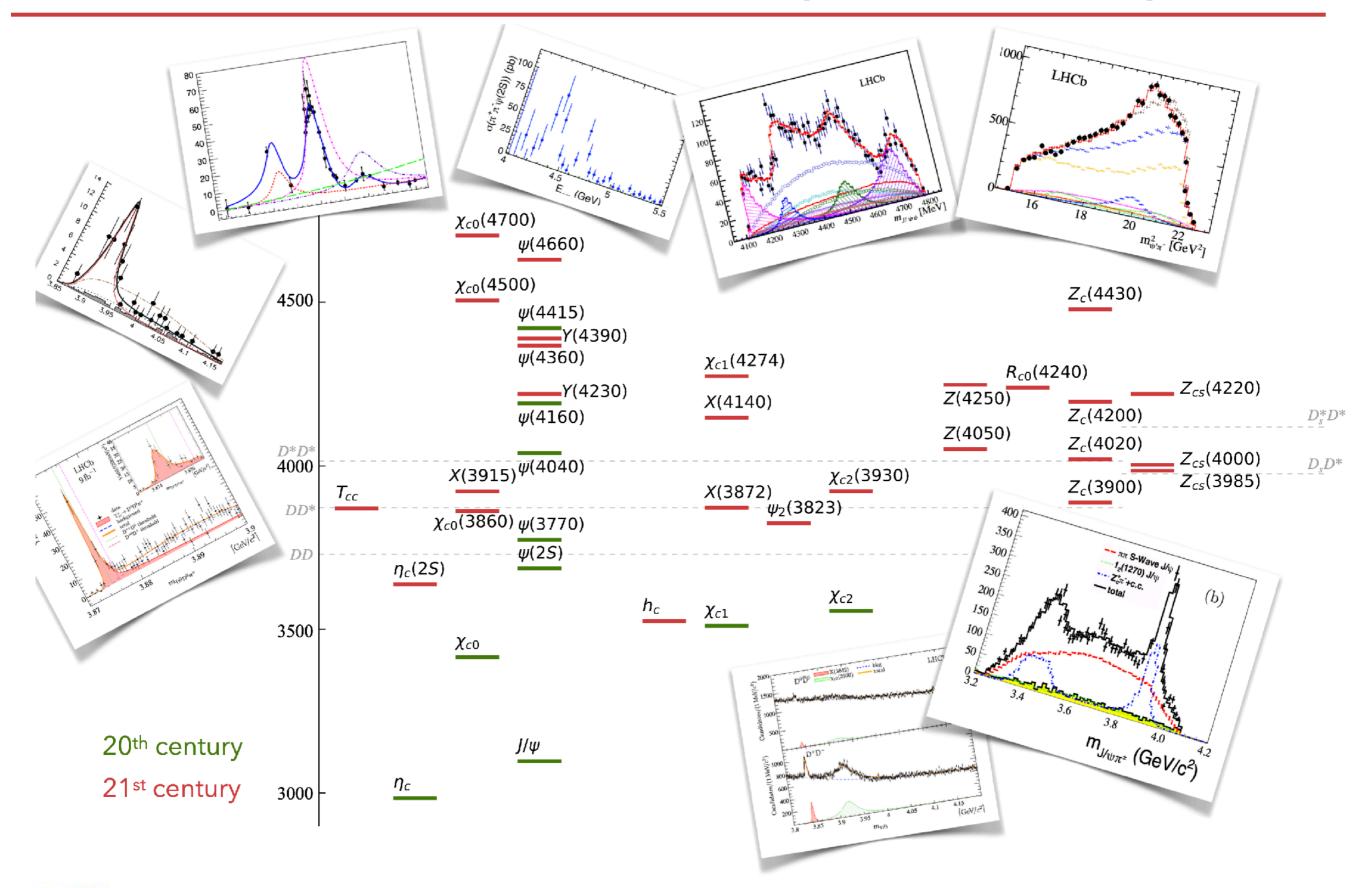
Renewed motivation - the XYZ explosion - tetraquarks?





New insights on a particle physics enigma

JLab Highlight:

Lattice QCD method suggests a simpler spectrum of exotic "XYZ" hadrons

Cambridge & **DAMTP** Highlights

Editor's Suggestion

Phys.Rev.Lett. 132, 241901 (2024)

Phys.Rev.D 109 (2024) 11, 114503

Submitted as a DOE highlight

Accomplishment:

First charmonium spectrum calculation including all scattering channels, showing state counting is consistent with simple pictures.

Methods: Graph evaluation techniques developed in partnership with SciDAC RAPIDS

Impact: Suggests many charmonium states claimed by LHCb may not exist, and X(3872) may not be a tetraquark.

