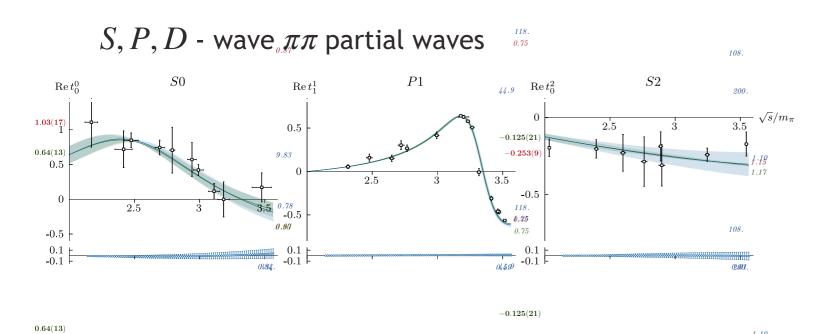
Quark mass dependence of the lightest resonance of QCD



Accomplishment: First full QCD characterization of the lightest resonance.

Methods: Graph evaluation techniques developed in partnership with SciDAC RAPIDS.

Impact: Provide guidance to analysis campaign of K-long experiment at JLab12

JLab Highlight:

A combination of supercomputing and traditional techniques allowed Jefferson Lab theorists to better describe the unstable sigma meson particle, contributing to our comprehension of the strong interaction

Phys.Rev. D 109 (2024) 3,3 Phys.Rev. D 108 (2023) 034513

Submitted as a DOE highlight

