



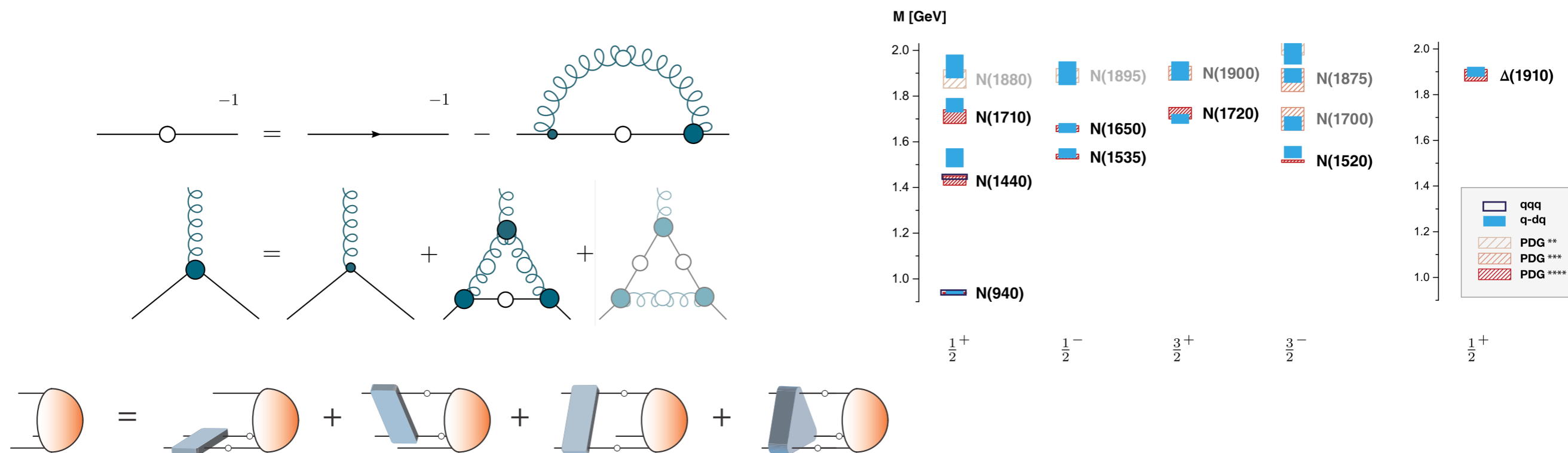
Functional Methods

Areas of expertise

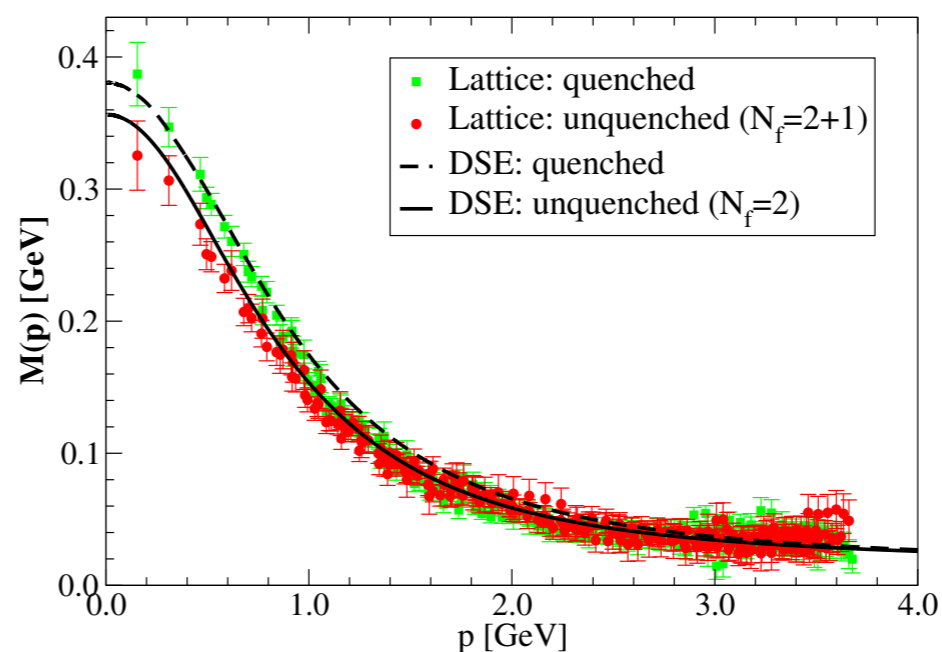
- Hadron spectra
 - Mesons and baryons
 - Glueballs, hybrids, four-quark states
- Hadron form factors (EM, axial,...)
 - baryon form factors
 - meson form factors
 - $(g-2)_{\mu}$
- Hadron structure
- QCD phase diagram
 - critical end point
 - thermodynamics, eos
 - hadrons at finite T and μ

Community: gauge fixed QCD

Functional methods: DSEs, BSEs and FRGs

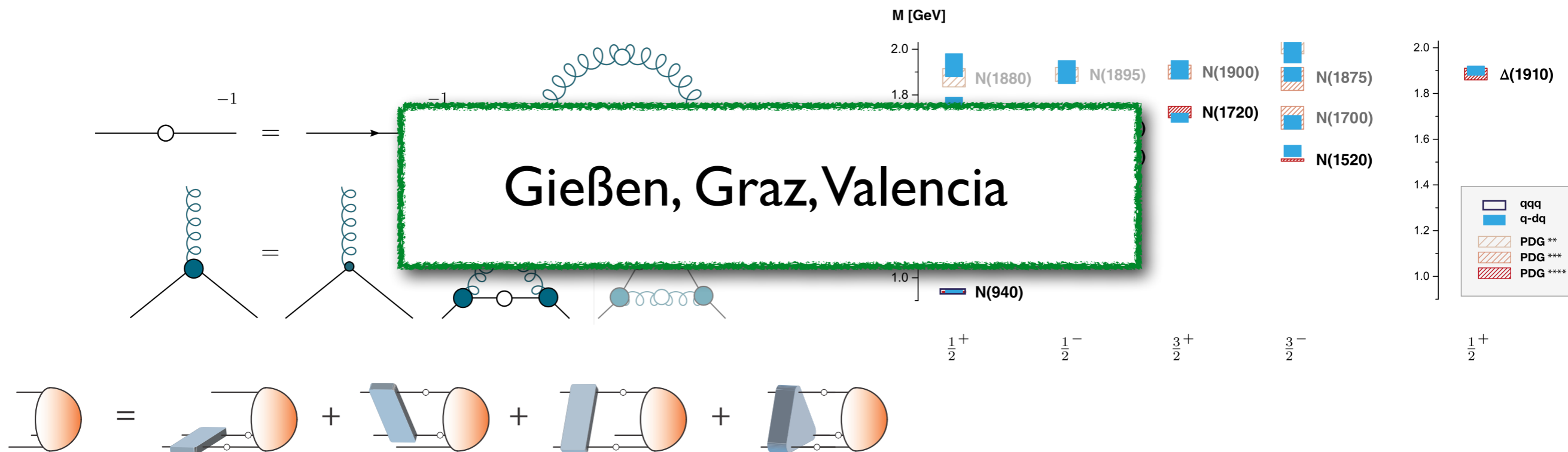


Gauge fixed lattice QCD

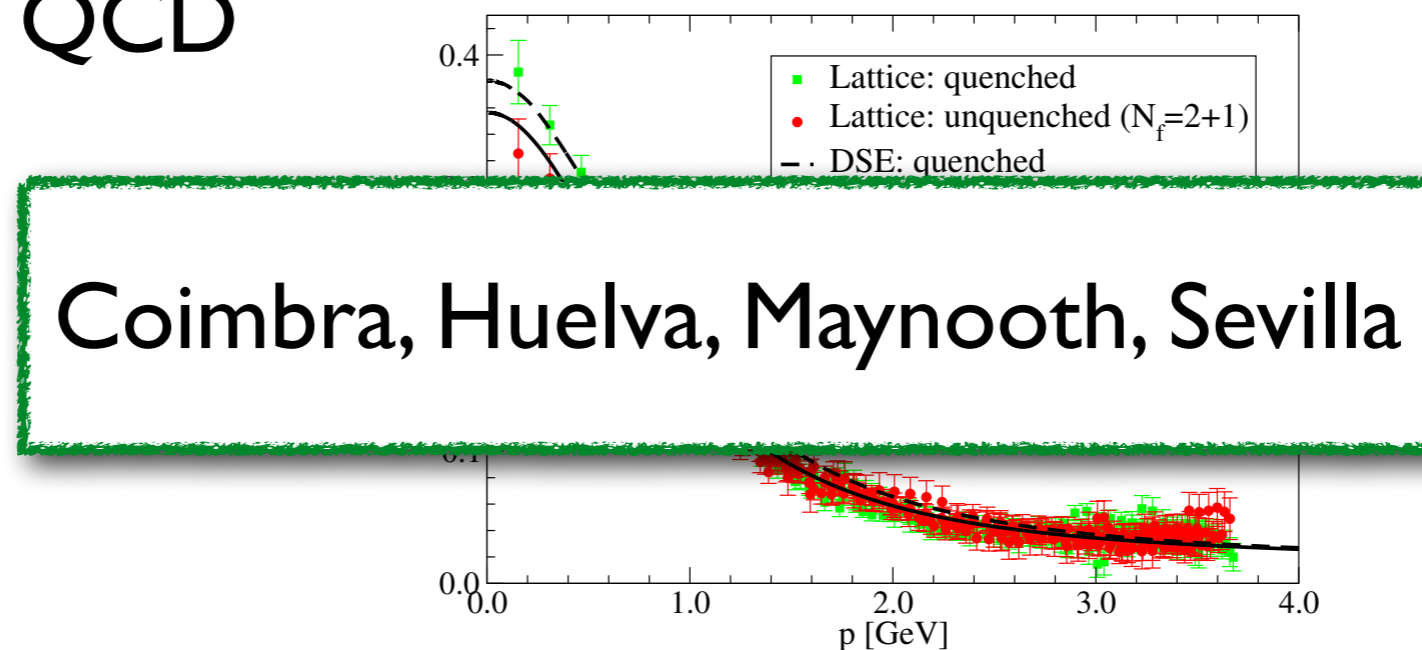


Community: gauge fixed QCD

Functional methods: DSEs, BSEs and FRGs



Gauge fixed lattice QCD



Computing tools and needs (functional methods)

- Code development (C++, Julia, Fortran...)
 - all elements developed by ourselves...
 - no public libraries
- Computing currently available
 - local clusters with $O(1000)$ cores
- Computing necessary for high demand projects (GPDs, four-quark states,...)
 - 100M CPU hrs/year