

# JSC SDL NUMERICAL QUANTUM FIELD THEORY

## FORSCHUNGSZENTRUM JÜLICH – JÜLICH SUPERCOMPUTING CENTRE

SDL: „Simulation & Data Lab“ → a Research and Support entity and **Community Foothold at JSC**

Research: (easy) lattice QFT etc.

Support:

- Software development support
- Education: Workshops (e.g. „Lattice Practices“), Lectures, Bachelor Master & PhD students, Internships
- Benchmarking & Procurement: QCD contribution to **JUPITER Benchmark Suite** (Eric Gregory)
- Interaction with Industry and co-design (e.g. STXdemo)
- **LDG** node at JSC (Giovanni Pederiva)

EuroLat: a computer center's perspective

- „Fertilizing the field“ for lattice QCD projects: awareness, „marketing“ of the exciting physics, impact (M€ resources for B€ experiments etc.)
- User feedback from a community with a track record of highly successful applications and thus resources
- Support for efforts to revive the LDG, its sustainability, and support in procuring the required HW