

ISC 2026: Quantum Computing Highlights

Quantum Computing Reading Group –
July 15, 2026

Dr. Samar Aseeri
KAUST

ISC 2026 at a Glance

- June 22–26, 2026 | Hamburg, Germany
- Theme: Connecting the Dots
- 3,400+ attendees, 188+ exhibitors
- Quantum featured across the conference

Opening Keynote – Martin Schulz

- Heterogeneous future: CPUs, GPUs, AI, QPUs
- Quantum as an accelerator
- Software ecosystems are critical
- Unified HPC–Quantum workflows

Quantum Sessions

- Tutorials on hybrid quantum-HPC
- Quantum BoFs
- Quantum-as-a-Service
- Hybrid QC workshop

Takeaway #1

HPC centers deploying QPUs:

- BSC
- CINECA
- Forschungszentrum Jülich
- LRZ

Takeaway #2

Integration models:

- Cloud
- System-global
- Node-local
- Combined

Challenge: integrate with existing Slurm infrastructure.

Takeaway #3

- Orchestration
- Compilation scalability
- QEC latency
- Full-stack benchmarking

Big Picture

Quantum at ISC 2026 emphasized integration rather than quantum advantage.

Focus: HPC + AI + Quantum convergence.

Relevance to QCRG

- Aligns with our work
- Luigi lapichino follow-up
- Qaptiva
- inQuanto
- Bull/Seiyaj collaborations