

## THE QUANTUM UNIVERSE TEAM

### Contributing Scientists

- 34 principal investigators
- 57 research groups, including 14 young investigator group leaders
- in total about 300 scientists



### A Strong Partnership

**U+H** Universität Hamburg  
 DER FORSCHUNG | DER LEHRE | DER BILDUNG

**DES**

**PIER** Partnership for Innovation, Education and Research

- Nearly 60 years of unparalleled cooperation
- 6 joint appointments on Quantum Universe

### External funding over the past 10 years

- Collaborative Grants:
  - DFG CRC 676 "Particles, Strings and the early Universe"
  - DFG RTG 1670 "Mathematics Inspired by String Theory and QFT"
  - DFG RTG 1351 "Extrasolar Planets and their Host Stars"
  - BMBF Projects (CMS@LHC, CMS upgrade, LOFAR)
  - HGF Alliance "Physics at the Terascale"
  - Hamburg Excellence Initiative "Connecting Particles with the Cosmos"
- Individual Grants:
  - Humboldt Professorship
  - Heisenberg Professorship
  - Lichtenberg Professorship
  - 5 Helmholtz Recruitment Initiative Professorships
  - ERC: 2 Advanced Grants, 3 Consolidator Grants, 5 Starting Grants
  - 10 DFG Emmy Noether groups



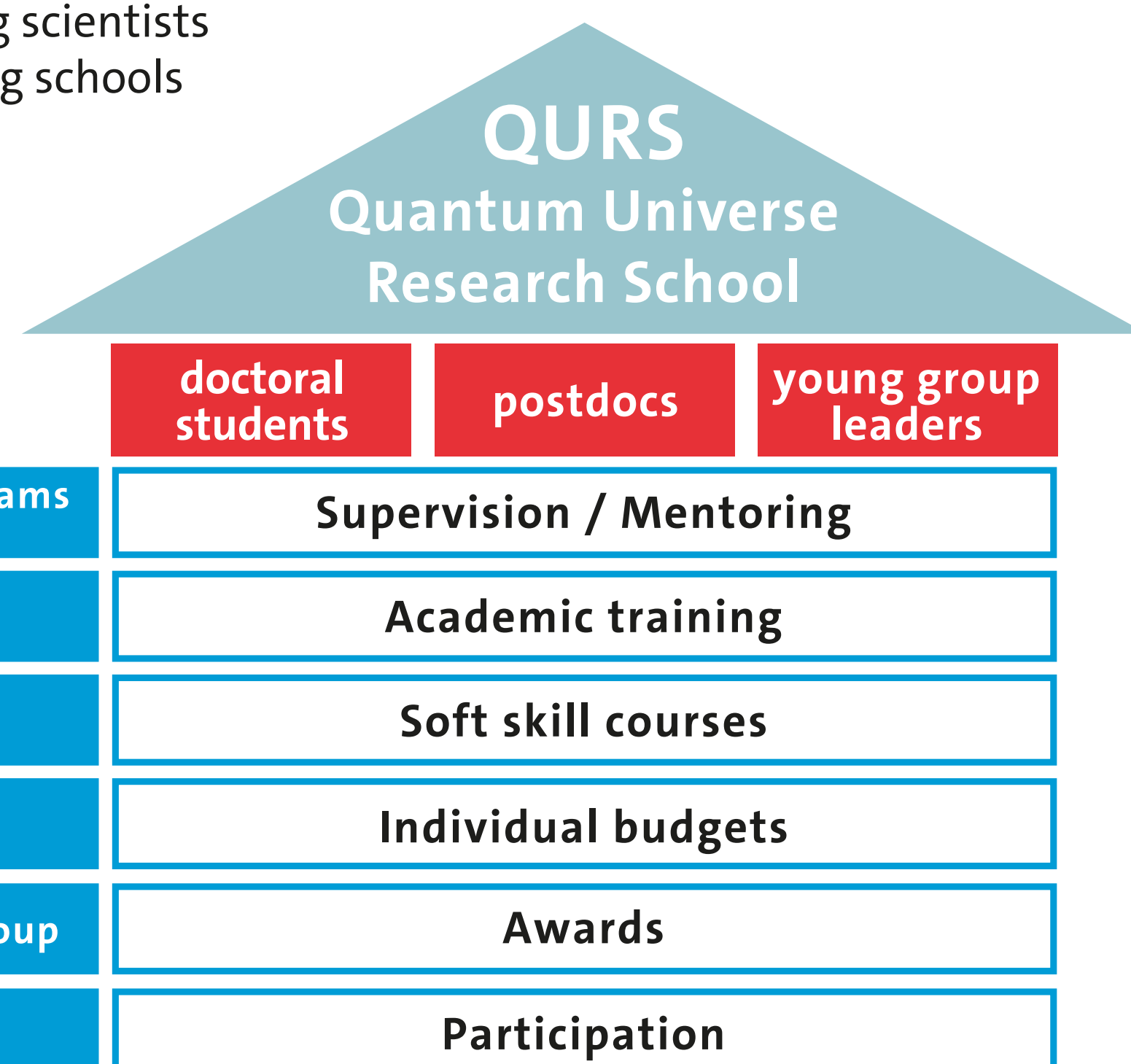
### New Strategic Appointments

- Geometric Analysis\* (Associate Professor, W2)
  - Detector Science (Associate Professor, W2)
  - Theoretical Astrophysics\* (Full Professor, W3)
  - Precision Non-Collider Particle Physics (Full Professor, W3)
  - Gravitational Wave Detection (Assistant Professor, tenure track W1/W2)
  - Cryogenic Gravitational Wave Detectors\* (Staff scientist, tenure track)
  - Data Science\* (Assistant Professor, tenure track W1/W2)
  - String Geometry (Assistant Professor, tenure track W1/W2)
  - Higher Structures in Algebra and Geometry (Associate Professor, W2, Lichtenberg)
- \* positions advertised, 5. O. Gerberding 8. J. Holstein 9. T. Dyckerhoff

## QUANTUM UNIVERSE RESEARCH SCHOOL

### Educate New Leaders in Science and Economy

- ~150 doctoral students, ~80 postdocs and 14 young group leaders
- career development support for young scientists
- based on long experience with existing schools
- individual budgets for research and career development
- 55% of total funding for early career researchers



## EQUAL OPPORTUNITY AND DIVERSITY

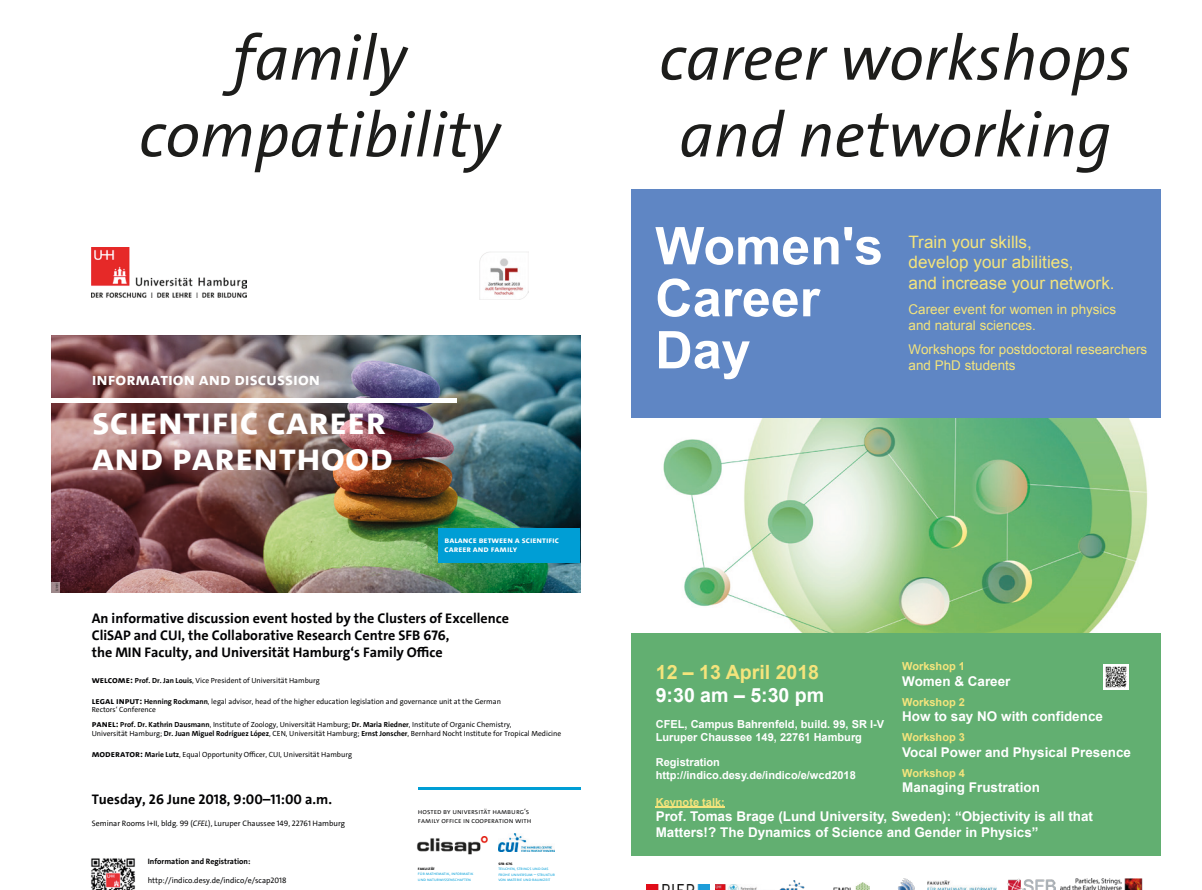
### Increase Number of Female Researchers

- active scouting on all career levels
- additional postdoc for female group leaders
- additional sabbatical leave for female PIs
- annual guest scientist award for female researchers
- physics meets gender conferences
- dynaMENT: Mentoring for Women in Natural Sciences
- workshop series: Academic Leadership for Women
- tenure-track as a new career option



### Improve Compatibility of Career and Family

- additional postdoc for group leaders taking parental leave
- foster family friendly work environment
- information and advise on legal ramifications
- workshop series: Scientific Career and Parenthood
- parent-child offices
- emergency child care solutions



### Raise Awareness for Diversity

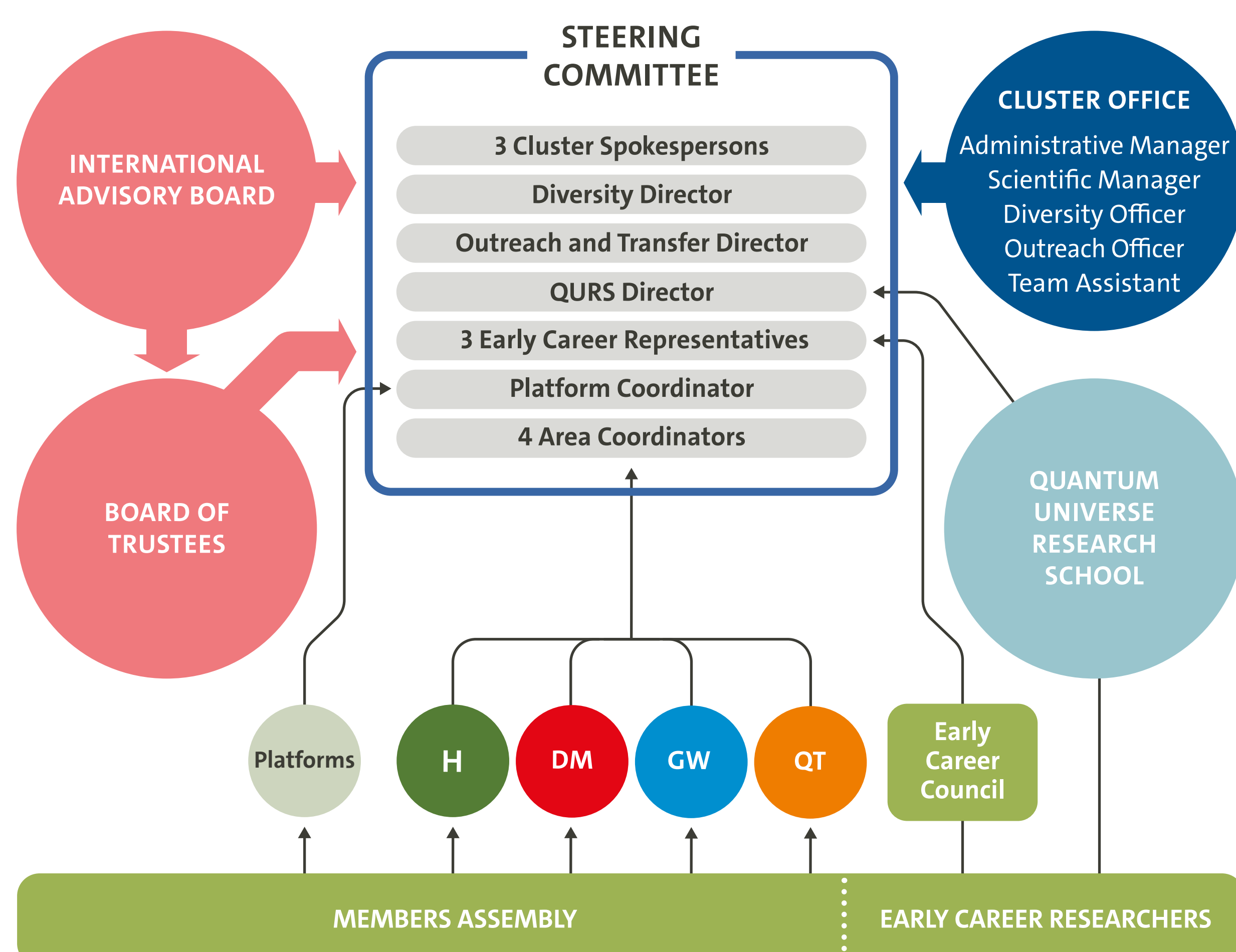
- non-biased recruiting: workshops for PIs and shadowing of job interviews by experts
- courses on diversity issues in academic lecturing
- diversity workshops

### Strong Central Support

- Universität Hamburg certified as family-friendly working environment
- Local daycare (Kinderwelt@DES)



## GOVERNANCE



## PUBLIC OUTREACH ACTIVITIES

### Science on Tap



### Art Meets Science



### Schools



### Science Night

