

September 2025, ACAT in Hamburg

CLUSTER OF EXCELLENCE

QUANTUM UNIVERSE

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Previously

X International Workshop on Advanced Computing and Analysis Techniques in Physics Research



ACAT 2005

May 22 - 27, 2005 DESY, Zeuthen, Germany

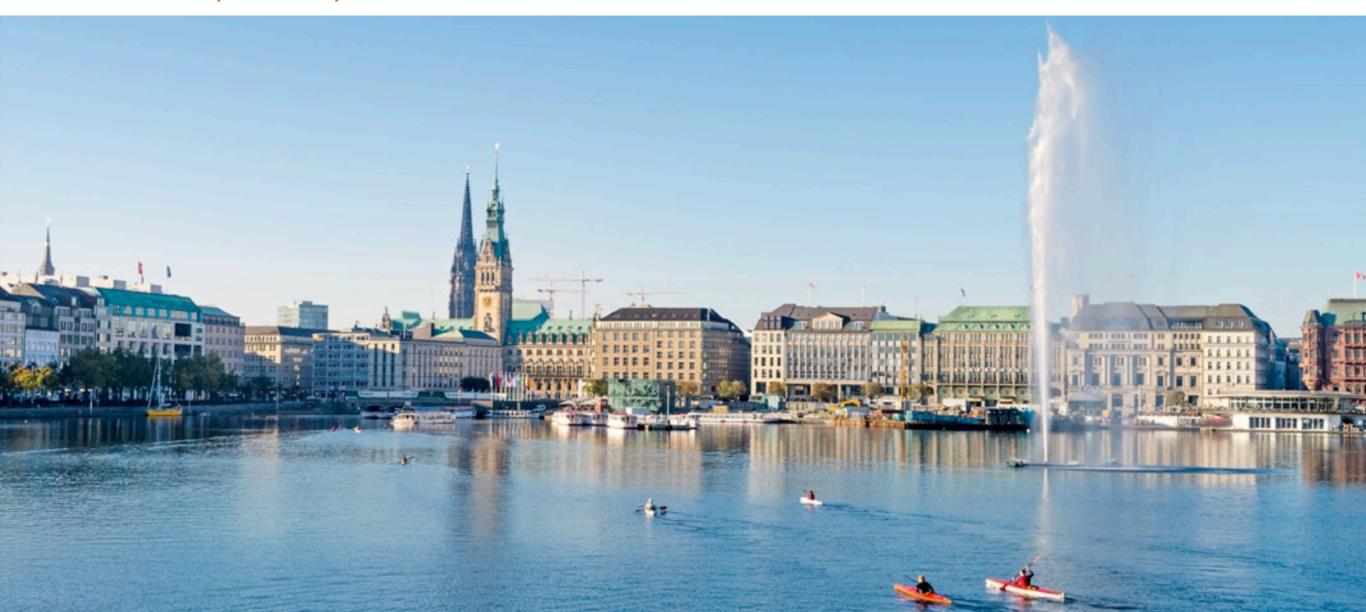




- Would 20 years since the previous German ACAT
- Also 1 light-millisecond away

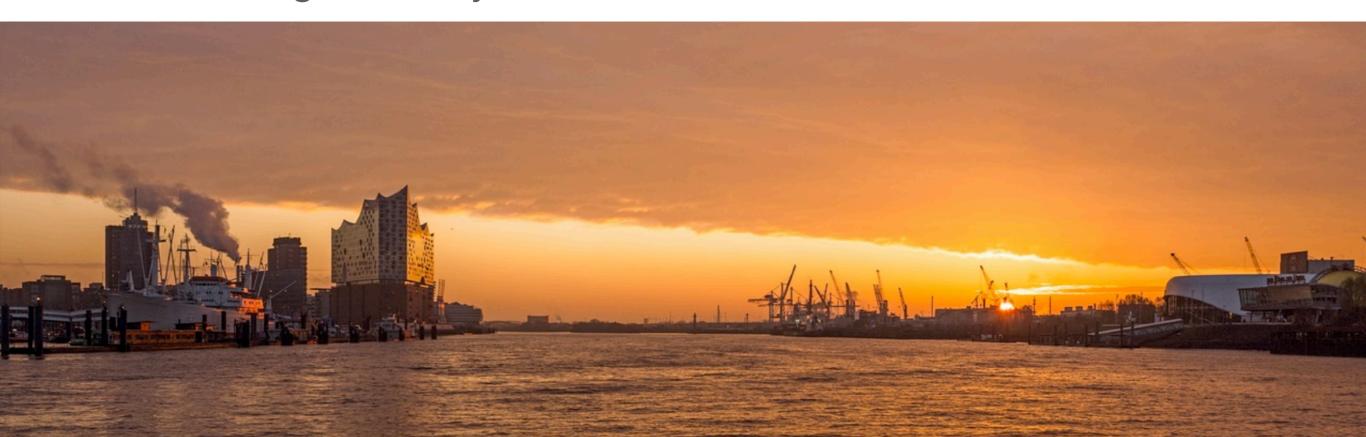
Hamburg, the city

- Second-largest city of Germany (6th of EU)
 about 1.9 million inhabitants, 5 million in metropolitan area
- Beautifully located on the banks of rivers Elbe and Alster water, water, water!



Hamburg, the city

- Long and proud history: "Free and Hanseatic City" always governed by local citizens
 Still a standalone "Bundesland" (like Bavaria)
- Thriving and dominating harbour (3rd largest in Europe)
 Germany's "Tor zur Welt"
 For centuries: multi-cultural influence and open-minded citizens
- Flourishing economy



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Hamburg, quality of life



DESY

- National research center in the Helmholtz association particle physics, physics with photons, accelerator research Founded 1959, today: ~2000 employees
- Home of E-XFEL, Petra III, FLASH in the past: HERA, PETRA, DORIS
- Largest HEP division in D: LHC, Belle/Belle II, ILC, IceCube and CTA, Axion-like searches, test beams, detector R&D
- Substantial scientific computing





Hamburg University

- Founded 1919 by local citizens one of largest universities in D
- > 40 000 students, all disciplines humanities, law, medicine, ...
- Physics department: astro-physics, nano-science + photonics HEP division: LHC physics, astro-particle physics, neutrino physics, detector R&D, particle physics phenomenology, machine learning in physics



Quantum Universe

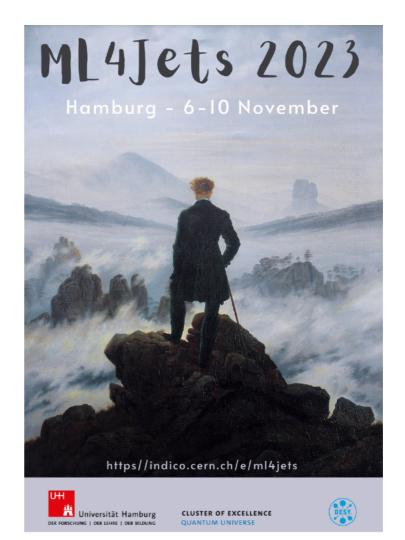
- Joint activity of UHH and DESY
- Sept 2018: extremely successful in federal "initiative of excellence"
- Cluster of excellence: "Quantum Universe"
 Topics: string theory, particle physics, cosmology collaboration additional 8 MEUR/year
- Currently preparing renewal application but QU will still operate in 2025 (and potentially support ACAT)

CLUSTER OF EXCELLENCE QUANTUM UNIVERSE

Organisation

- Gregor Kasieczka (UHH), Frank Gaede (DESY), Andrea Bremer (UHH), Anna Hallin (UHH), Sarah Heim (DESY), Isabell Melzer-Pellmann (DESY), Hartmut Stadie (UHH) + P. Fuhrmann (DESY, TBC) + AI in Astro (UHH TBC)
- Recently history of many successful joint conferences & workshops:





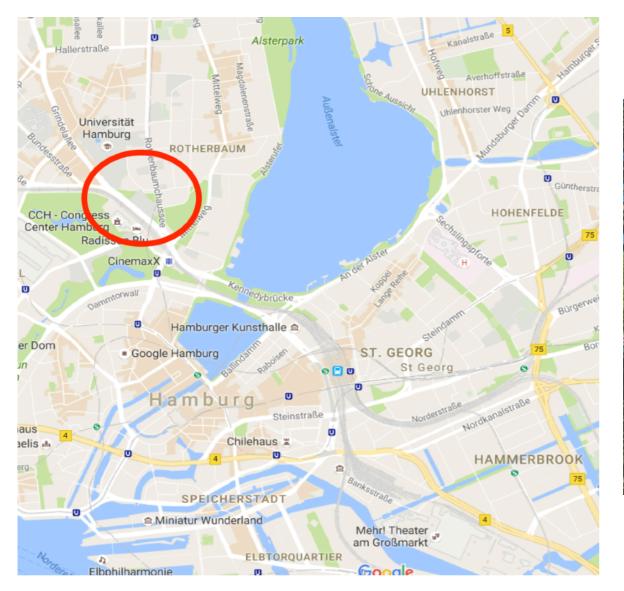
Organisation

• Including EPS-HEP 2023:



Location

- Very central conference location: Historic UHH main building
- Short distances, excellent connectivity
- Close to shopping, culture, attractions, bars and leisure activities





Location



Location

Hörsaaldetails	Kapazität	
ESA 1 Hörsaal A	622	
ESA 1 Hörsaal B	361	
ESA 1 Hörsaal C	178	
ESA 1 Hörsaal H	80	
ESA 1 Hörsaal J	174	
ESA 1 Hörsaal K	80	
ESA 1 Hörsaal M	170	

- Currently the main building (ESA) is reserved
- More lecture halls than needed for ACAT
- Could use e.g. B,C, and H but flexible
- All rooms fully equipped with projectors, etc.
 - For EPS-HEP used additional support from DESY meeting service; Can decide if needed



Timing

We have reserved the main building for these slots:

1.-5.9.2025

8.-12.9.2025

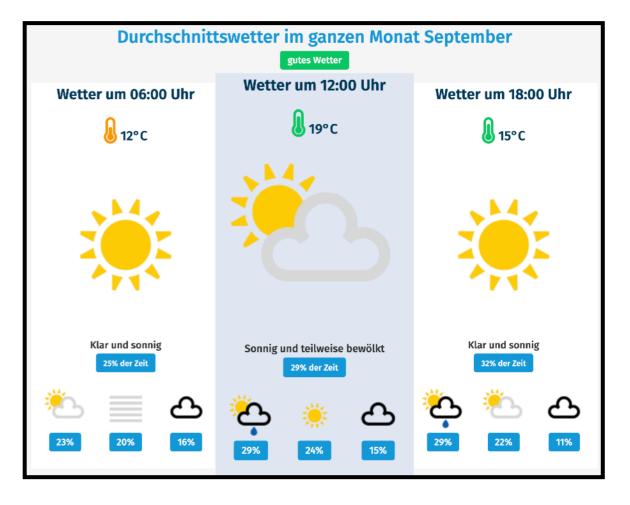
22.-26.9.2025

(should decide soon)

September is a great time for Hamburg — mild temperatures,

good amount of sunshine





Financials

Item	Cost	#	Total
QU Cluster Support	-10000	1	-10000
Other support (e.g. ErUM, DFG,)	-10000	1	-10000
UHH Conference Manager / Day	1000	5	5000
Coffee Breaks / Day * Person	20	1250	25000
Catered Lunch / Day * Person	15	1250	18750
Reception / Person	50	250	12500
Dinner / Person	150	250	37500
Other costs	10	250	2500
Proceeding Publication	60	150	9000
		Sum:	90250
(250 people)		Per-participant:	361

Numbers in EUR Currently: 1 EUR = 1.07 USD = 0.96 CHF = 172 Yen = 1.485 Won

- Rooms are free but need to pay UHH conference manager 100 EUR/hour
- As there is also local support,
 conference fee = food & drinks for participants
- Can scale up/down easily: e.g. catered lunches needed? Tour wanted?

Dinnercruise?









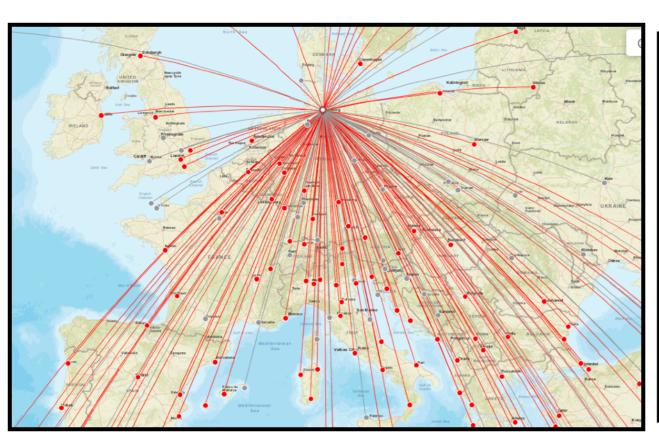
Hotels

- Hamburg is a major city, plenty accommodations available at all price scales
- Conference venue in city center: ~80 hotels in 2km radius
- In the past: Pre-booking e.g. at Mercure at slightly reduced rate.
 Can consider if needed



Travel

- Hamburg airport (HAM) well-connected to city with public transport. Many national & international flights
- Good train connections to Germany and neighbouring countries





Summary

- Scientifically: Hamburg has a long-history in fundamental physics and scientific computing. Recent strong push into Al in science
- Major university & DESY collaboration:
 Have the people, resources, room, and experience
 to organise an ACAT-size conference
 Conference at Uni campus: Great atmosphere & in the city center
- Beautiful international city: Plenty options in dining, nightlife, arts, culture, and sports



Thank you for the consideration!