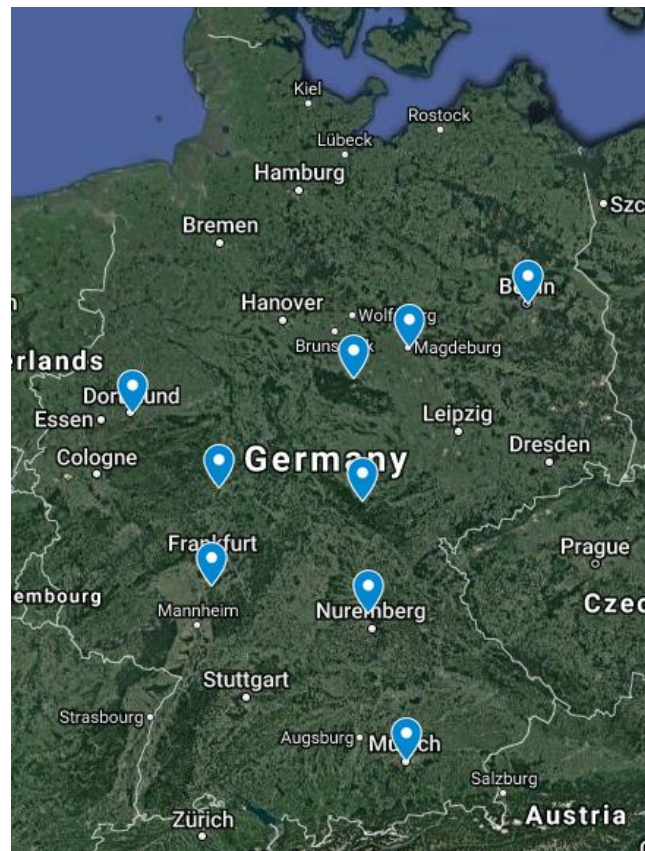


# 2nd PhD Workshop of SPP 2037

Opening

# Participants

- 18 PhDs
- 3 Post-Docs
- All 10 Projects participated



# General Remark

□ This meeting is about your interests and will result in whatever we make out of it

□

We can freely form groups to discuss certain topics

We can also brainstorm over potential collaborations, be it in the form of a joint paper, teaching, code sharing

We can decide to code some concept/query

Most importantly: Should be fun for everyone :-)

# Planned Program - Wednesday

- **13:00 – 13:15** Opening, Welcome
- **13:15 – 14:15** 3 Minute Teaser Talks
- **14:15 – 15:30** Breakout Sessions/Coding Challenge
- **15:30 – 16:00** Discussion, Coffee Break
- **16:30 – 18:00** Breakout Sessions/Coding Challenge 2
- **18:30+** Dinner

# Planned Program - Thursday

□ **09:00 – 10:00** Keynote Holger Fröning: "GPGPU in its teenage decade"

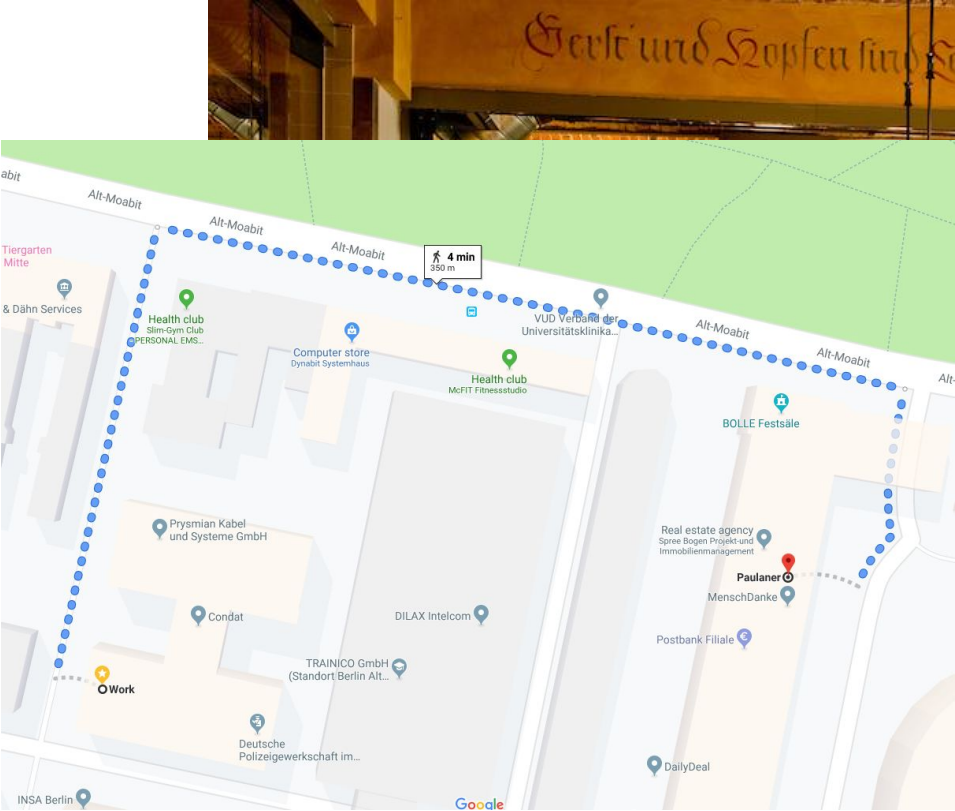
□ **10:30 – 10:45** Discussion, Coffee Break

□ **10:45 – 11:45** Breakout Sessions/Presentations

**11:45 – 12:00** Closing

□ **12:00 – 13:00** Lunch

# Dinner today



# Some Ideas on Discussion Topics

## Processors:

- Scalable (Co-) Processing (arbitrary sizes, load balancing)
- Streaming and Multi-Core Parallelization
- Hardware/software co-design
- Query compilation

## Memory:

- Non-Volatile RAM and Databases
- In-DRAM computation

## Networks:

- Programming abstractions
- Distributed synchronization

# Some Ideas on Programming Challenge

**Code the same query(ies) on a predefined dataset for different processors:**

- Figure out which processor gets best performance/\$ or energy efficiency
- Could lay the foundation of a joint paper

**Could start defining benchmarks for comparing different approaches from SPP**