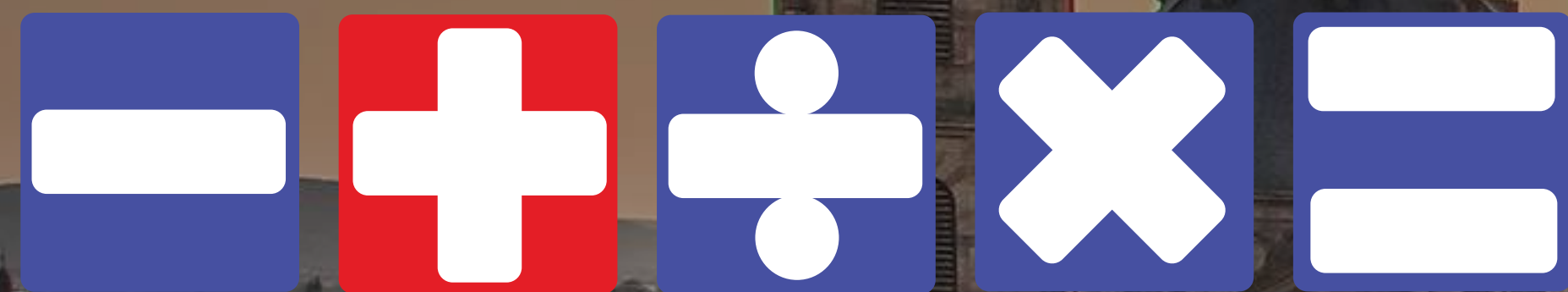


ARITH 2026



Fulda University of Applied Sciences

Fulda, Germany

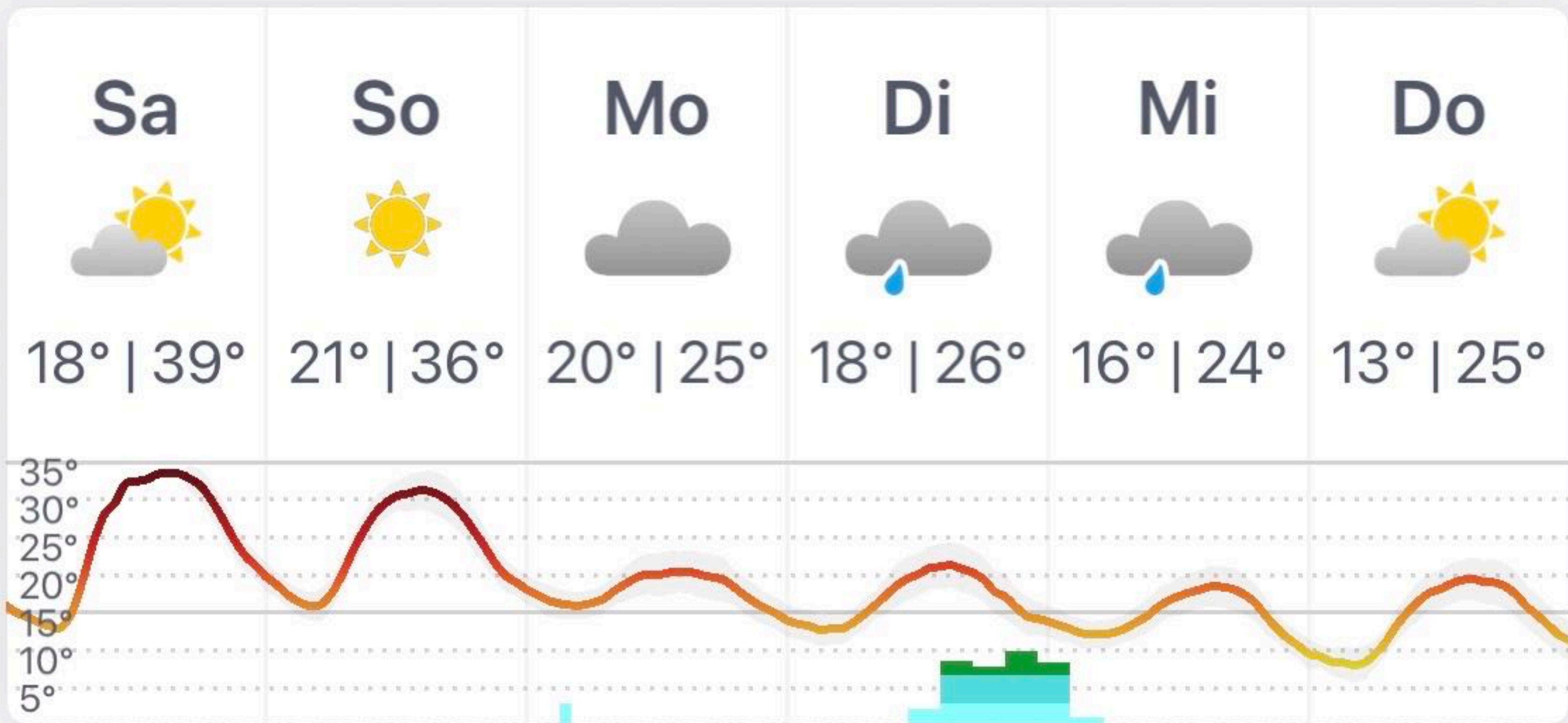
June 28 - July 1, 2026

General Chairs: Martin Kumm, Florent de Dinechin

Program Chairs: Javier Hormigo, Mantas Mikaitis

Local Chairs: Sebastian Rieger, Thomas Wiemann, Alexander Gepperth

Prognose für Fulda

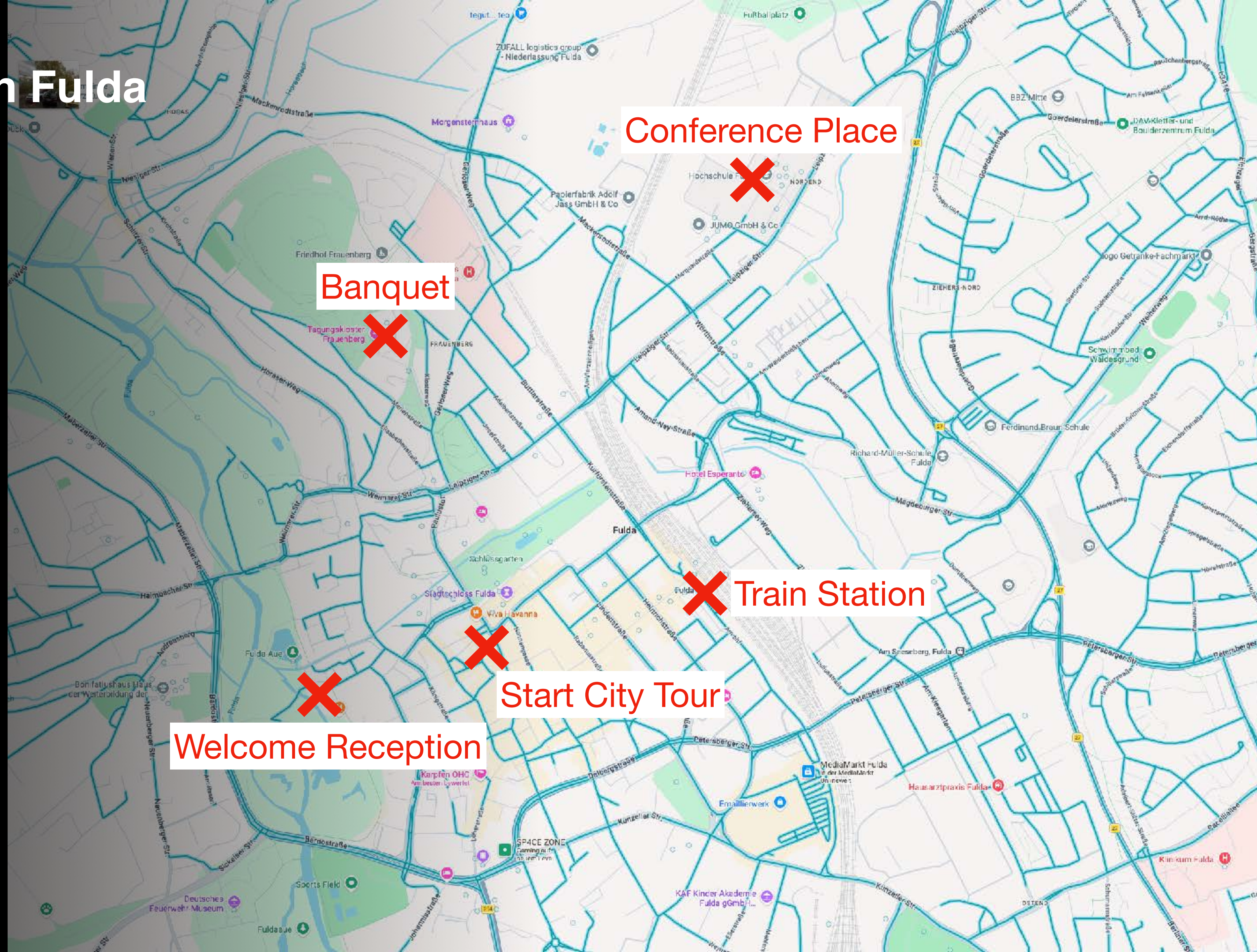


Welcome to the Fulda University of Applied Sciences!

- Origins 1949 as Pedagogic Institute, University founded in 1974
- Buildings date back to military barracks of an (horsed) artillery regiment around 1900
- Campus University
- 20 Minutes from city center
- ~9000 Students



Some Orientation in Fulda



Conference Place

Banquet

Train Station

Start City Tour

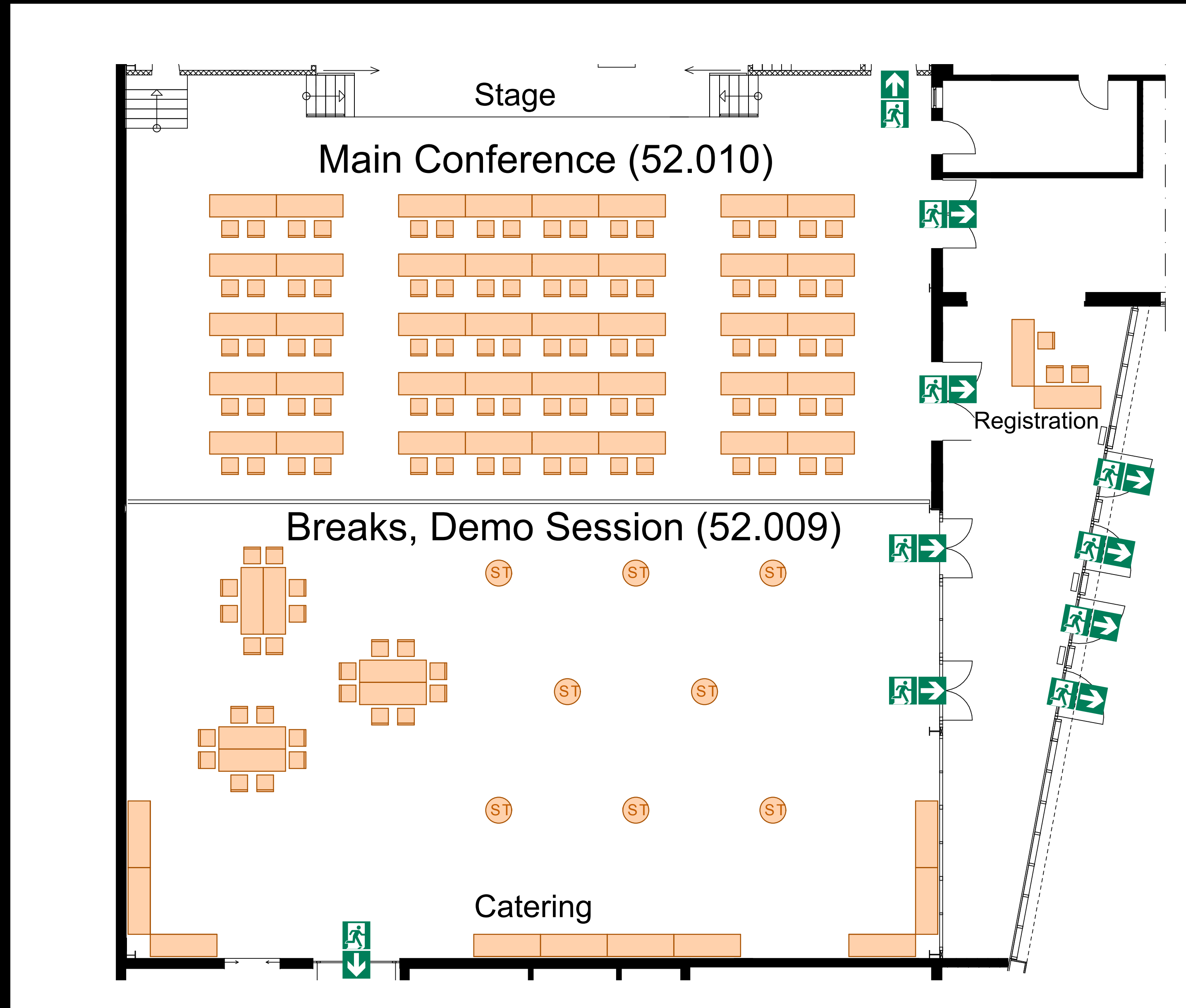
Welcome Reception

Fulda University, Locations of the Conference

If you need help,
ask people in blue



Fulda University, Locations of the Conference



WiFi

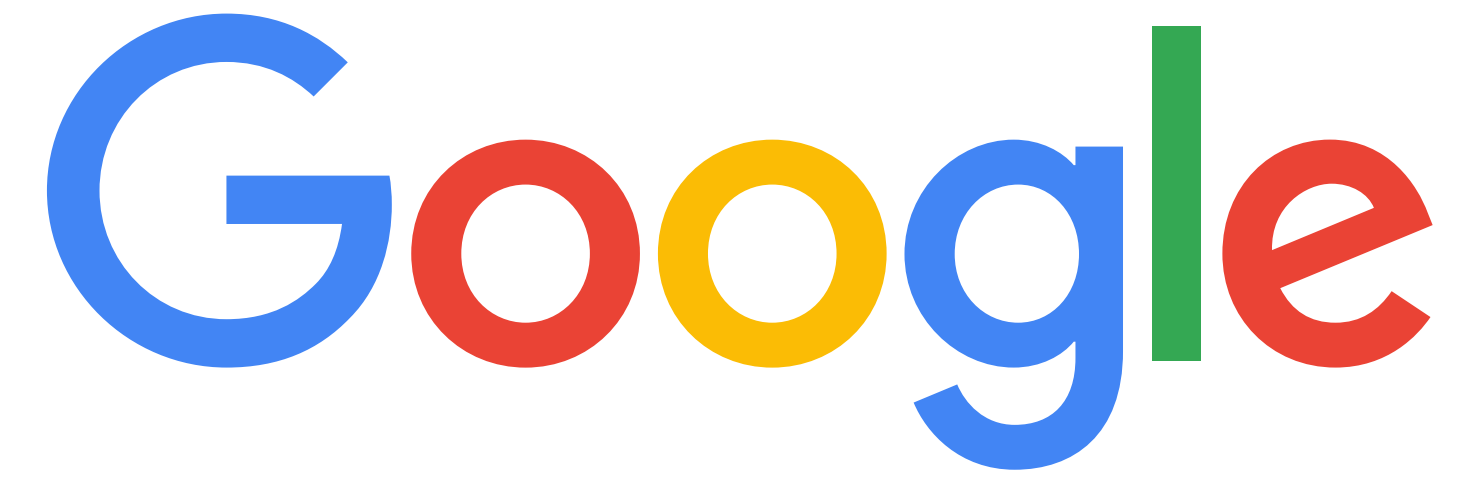
Use Eduroam or

- Wifi-Name: Event-WLAN
- Username: arith2026
- Code: UQjQDYsSBqKn
(you find this information in the program)

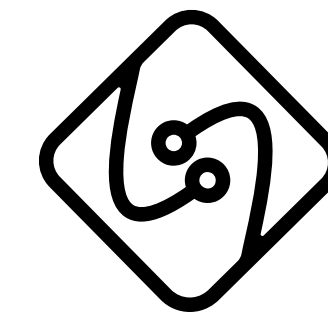
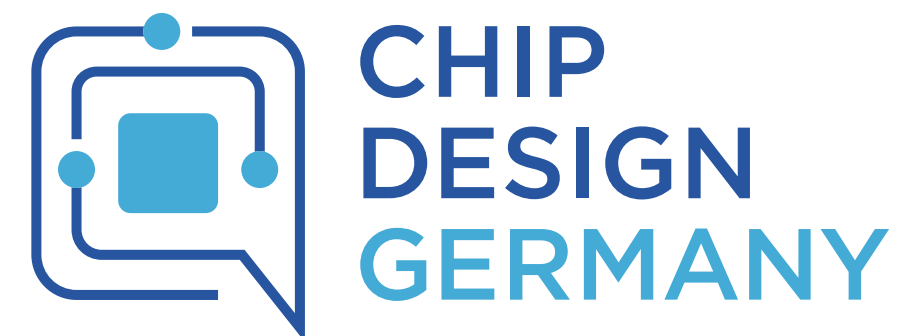


We thank our Sponsors!

Gold Sponsor:



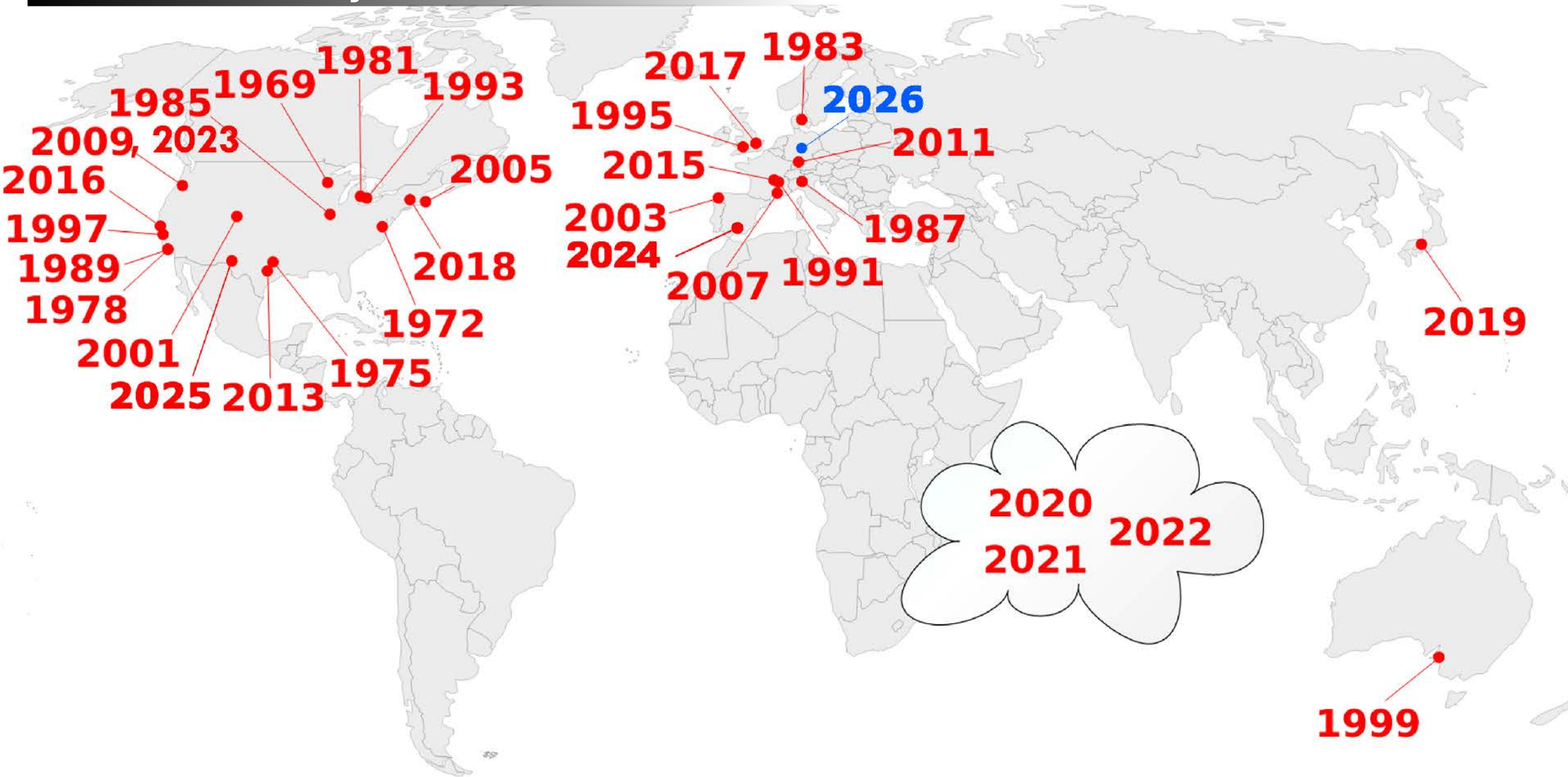
Silver Sponsors:



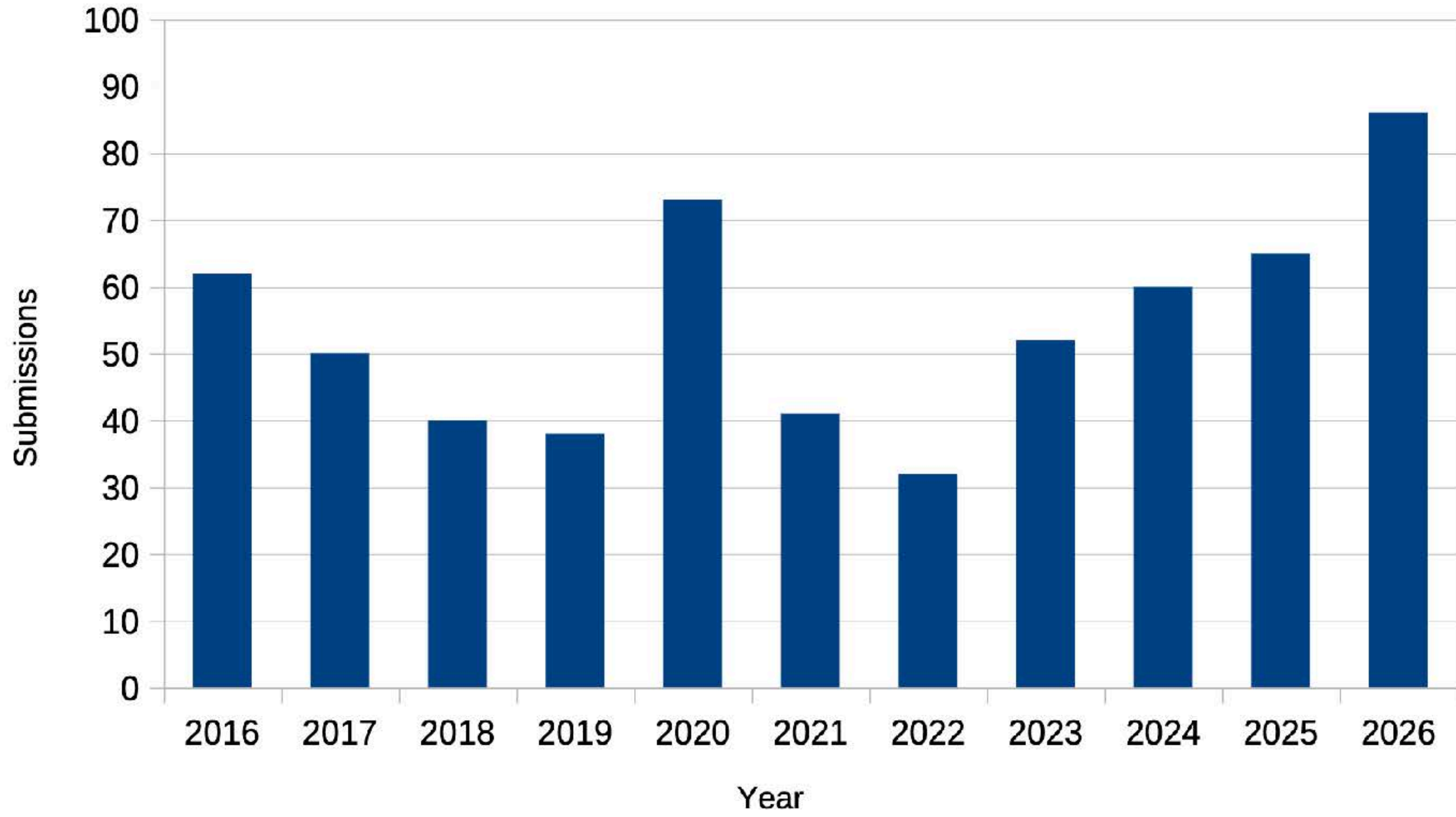
Bronze Sponsors:



ARITH over the years



Record Submission Number of ARITH 2026



ARITH Participation by Country

97 participants coming from:

Europe (64):

France: 17

Germany: 16

UK: 8

Switzerland: 4

Spain: 4

Sweden: 3

Hungary: 3

Ireland: 3

Portugal: 2

Belgium: 1

Czech Republic: 1

Greece: 1

Italy: 1

North America (21):

- USA: 20

- Canada: 1

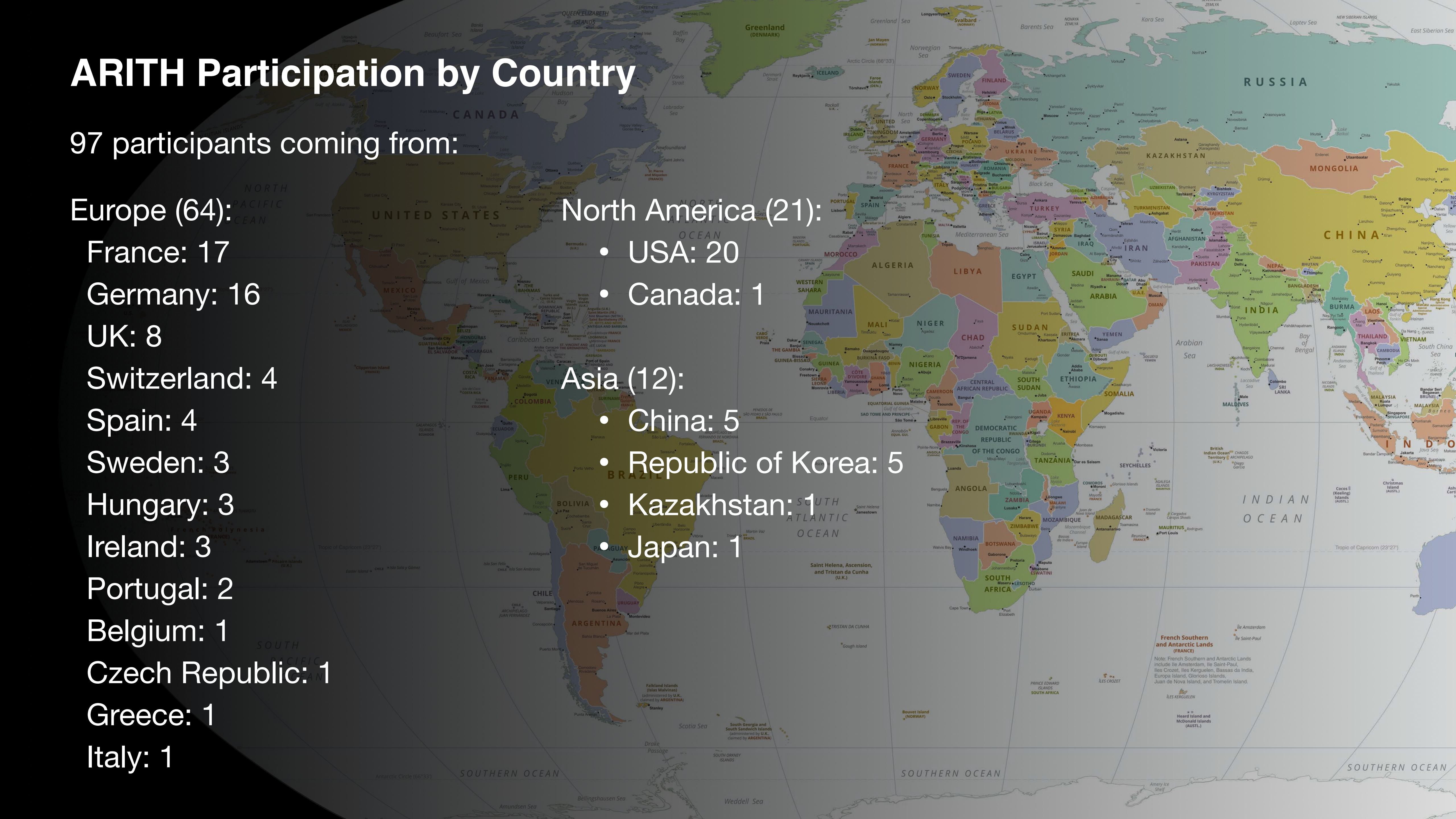
Asia (12):

- China: 5

- Republic of Korea: 5

- Kazakhstan: 1

- Japan: 1



Submissions and Acceptance Rate

- Submissions: 86
- Accepted: 23
- Acceptance Rate: 27%
- Reviews: 281 (25 external reviewers)
- On avg.: 3.27 Reviews per paper
- Papers were at least reviewed by 3 reviewers (double-blind) from the 55 Program Committee members with strict Conflicts of Interest (Col) management

30. Yan K-K, Gerstein M (2011) 1997/1872. Available: <http://www.ncbi.nlm.nih.gov/pubmed/21911111>

31. Bar-Ilan J (2012a) JASIST@mendeley. Presented at the Web usage statistics in PLoS Article Conference Workshop on Altmetrics Evanston, IL. Available: altmetricsorg/altmetrics12/bar-ilan. Accessed 21 January 2013.

32. Bar-Ilan J (2012b) JASIST 2001-2010. Bulletin of the American Society for Information Science and Technology 38: 24–28.

33. Bar-Ilan J, Haustein S, Peters I, Priem J, Shema H, et al. (2012) citations: Scholars' visibility on the social Web. In: Proceedings International Conference on Science and Technology Indicators Canada. pp. 98–109.

34. Li X, Thelwall M (2012) F1000, Mendeley and traditional indicators. In: Proceedings of the 17th International Conference and Technology Indicators. Montréal, Canada. pp. 451–551.

35. Li X, Thelwall M, Giustini D (2012) Validating online reference scholarly impact measurement. Scientometrics 91: 461–471.

36. Priem J, Piwowar HA, Hemminger BM (2012) Altmetrics in social media to explore scholarly impact. ArXiv.org. Available: <http://arxiv.org/abs/1203.4745>. Accessed 2013 January 21.

37. Schlögl C, Stock WG (2004) Impact and relevance of scientometric analysis of international and German-language Citation analysis versus reader survey. Journal of the American Society for Information Science and Technology 55: 1155–1168.

38. Rowlands I, Nicholas D (2007) The missing link: Journal of Information Science and Technology 59: 222–228.

39. Kurtz M, Bollen J (2010) Usage bibliometrics. Annual Proceedings 59: 222–228.

40. NLM (2013) MEDLINE Fact sheet. Available: <http://www.nlm.nih.gov/pubs/factsheets/medline.html>. Accessed 2013 March 20.

41. Taraborelli D (2012) The Altmetrics Collection. PLoS ONE 7: <http://dx.doi.org/10.1371/journal.pone.0038111>

Program Overview

- 2 Keynotes
- 8 Sessions
 - Monday:
 - Session 1: Software with Basic Arithmetic Operations
 - Session 2: Formats and Arithmetic for Machine Learning
 - Session 3: Verification
 - Demo Session
 - Tuesday:
 - Session 4: Hardware Arithmetic
 - Session 5: Elementary Functions
 - Session 6: Crypto / Finite Fields
 - Wednesday:
 - Session 7: Hardware for Multiply-Accumulate, Dot Products and Matrix Multiplication
 - Session 8: Quantum Algorithms for Elementary Functions

Speakers:

Mail your slides to
slides@arith2026.org

Best Paper Award

This year, 4 paper have been nominated as best paper candidates (from EasyChair scores):

- Novel Aspects of IEEE SA P3109 Arithmetic Formats for Machine Learning
Andrew Fitzgibbon, Christoph M. Wintersteiger and Jeffrey Sarnoff
- Computing hard-to-round Cases of sin, cos, tan in Double Precision
Vincent Lefèvre, Tue Ly and Paul Zimmermann
- Area-Efficient LUT-Based Multipliers for AMD Versal FPGAs
Zetao Miao, Xander Pottier, Jonas Bertels, Wouter Legiest and Ingrid Verbauwhede
- Approximating Floating-Point Addition Using The Geometric Mean
Theodor Lindberg and Oscar Gustafsson

Announcement of the winner will be done during the Banquet!

PC Members:
Please vote!

Contributed Talks on Recent Journal Papers

New format:

- Presentation of computer arithmetic work published in peer-reviewed journals
- Better visibility of high-quality work
- No contribution to the proceedings
- Talks are *inlined* into regular sessions

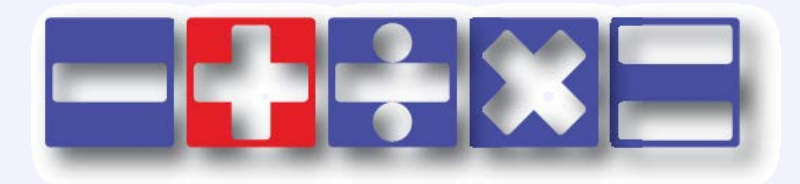
Statistics:

- Submissions: 10
- Accepted: 2
- Acceptance Rate: 20%

33rd IEEE International Symposium on Computer Arithmetic

Fulda, Germany. June 28 - July 1, 2026.

Call for Contributed Talks on Published Journal Papers



ARITH 2026

Overview

As a new initiative, ARITH 2026 will feature a **Special Session on Recent Journal Contributions**. This session is intended to highlight significant research results in the field of computer arithmetic that have been published in peer-reviewed journals within the last two years (published no earlier than 2024).

Authors of such works are invited to submit an **abstract** describing the content of the presentation, along with the speaker's information and **DOI Number** or an **URL** linking to the publisher's website.

Submissions must be in English and will be evaluated by the program committee based on relevance and significance to the topics of interest listed in the main call for papers of the conference. Selected contributions will be invited for an **oral presentation** at the conference.

Details

Detailed submission procedure is available at <https://www.arith2026.org/>

Important dates (check the website for updates):

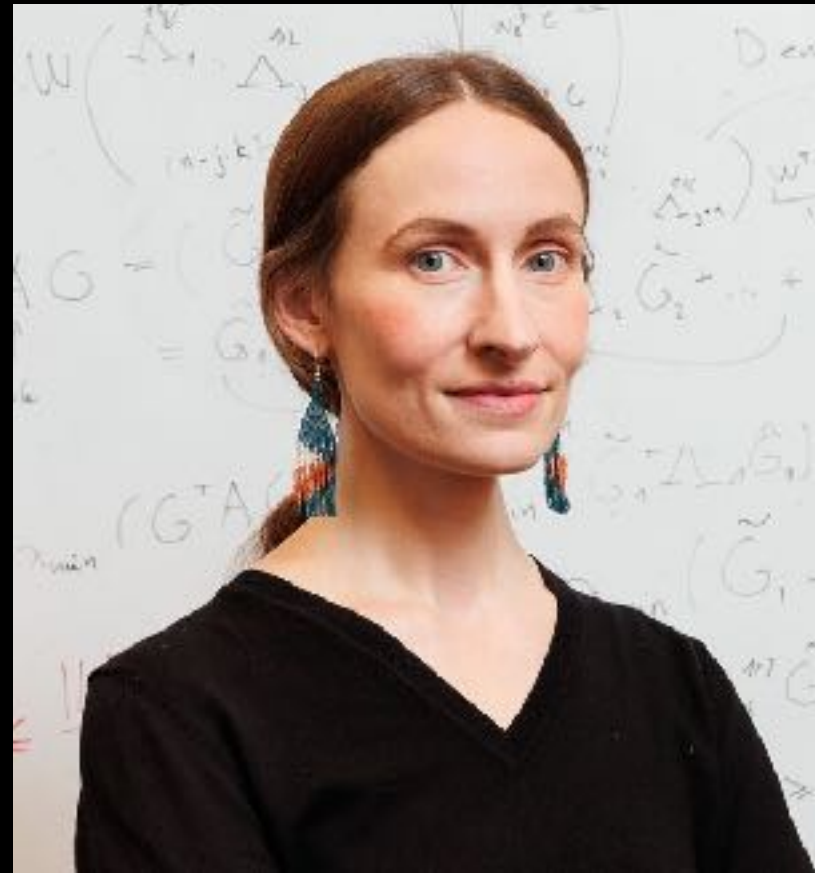
Presentation abstracts due: 20 March, 2026 | **Notification of acceptance:** 14 April, 2026

- These submissions **will not be included in the conference proceedings** or in the IEEE Xplore. The presented slides will be uploaded to the ARITH 2026 website.
- The presentation should have significant focus on **computer arithmetic**.
- Content published in **previous ARITH** proceedings is not eligible.
- Only **peer-reviewed and published journal articles** (including those in pre-publication list/early access) are eligible.
- At least one author must register and attend the conference in person to present the selected journal paper.

This session provides an opportunity to disseminate impactful results to the ARITH community and to foster discussion across recent developments in the field.

For questions, please contact the program chairs at: programchair@arith2026.org. We look forward to your contributions!

Keynote Speakers



Erin Carson

Associate Professor in the Department of Numerical Mathematics, Faculty of Mathematics and Physics, Charles University, Praha, Czech Republic

Mixed-precision Computing: High Accuracy With Low Precision



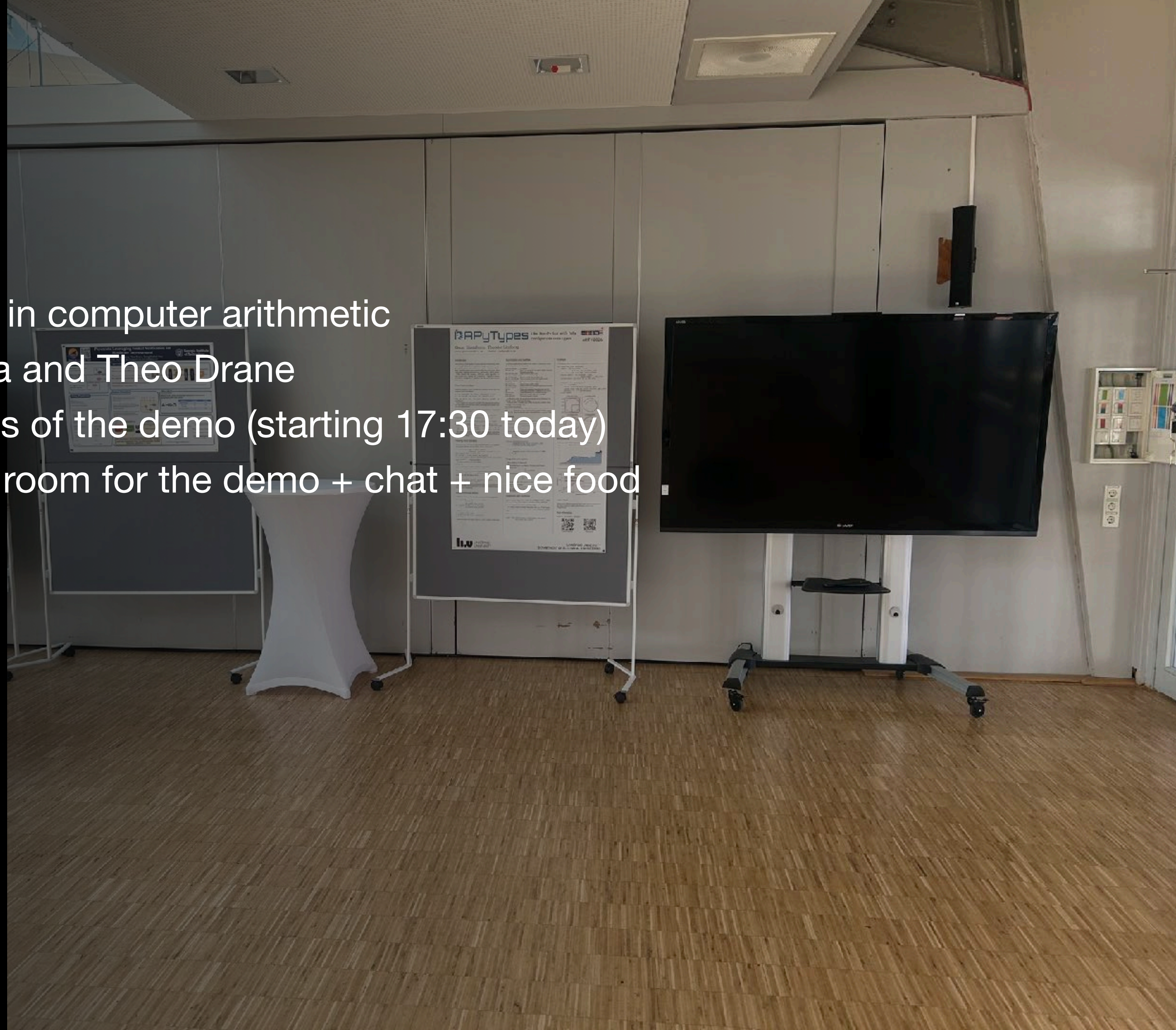
Jean-Michel Muller

CNRS Emeritus, Laboratoire LIP, Author of the books "Elementary Functions, algorithms and implementation" and lead-author of the "Handbook of floating-point arithmetic".

**The Table Maker's Dilemma and Correctly-Rounded Functions:
A Quick Review of 25 Years of Work**

Demo Session

- 9 Demo Presentations
- Focus on recent trends of tools in computer arithmetic
- Organized by Anastasia Volkova and Theo Drane
- Session starts with short pitches of the demo (starting 17:30 today)
- Then switch to the neighboring room for the demo + chat + nice food



Social Program - Guided City Tour (Tue, 18:30)



Fulda Cathedral (1712) & St. Michael's Church (822)



Old Town Hall

Social Program - Banquet at Monastery (Tue, 19:30)



Social Program - Hike in the Rhön Mountains (Wed, 14:00)



UNESCO Biosphere Reserve Rhön



Travel Opportunities



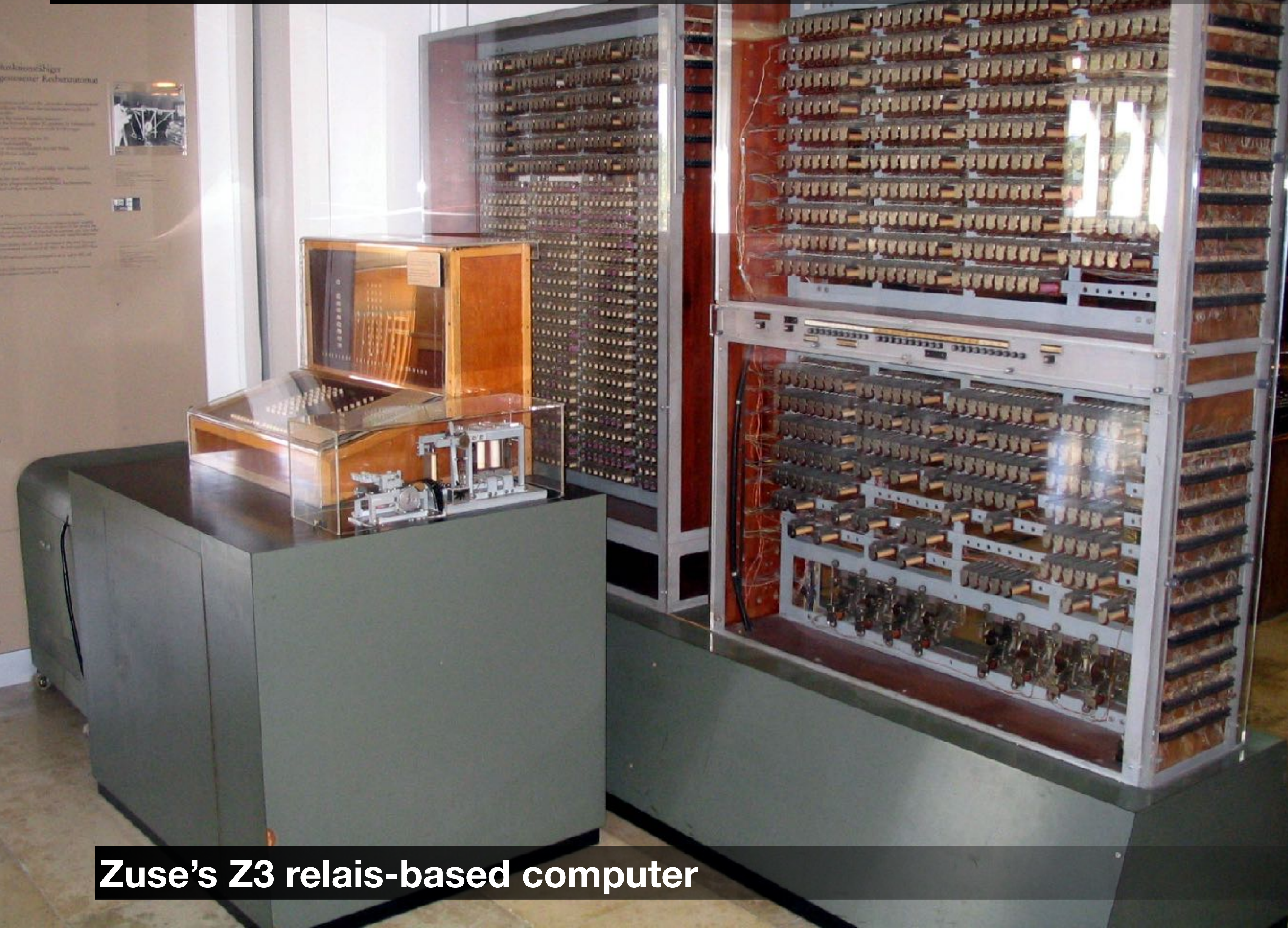
Frankfurt (1h from Fulda)

Travel Opportunities



Bergpark Wilhelmshöhe in Kassel - a UNESCO World Heritage Site (30 min from Fulda)

Konrad Zuse Museum Hünfeld (20 Minutes by Bus)



Zuse's Z3 relais-based computer



Konrad Zuse

Enjoy ARITH 2026