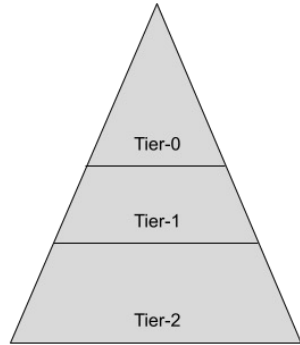
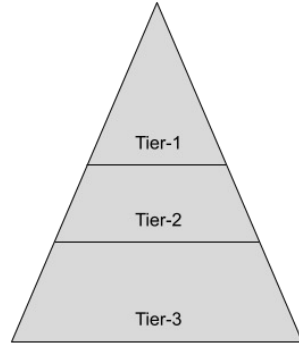


Europe (EuroHPC, PRACE)



Germany (GCS, NHR)

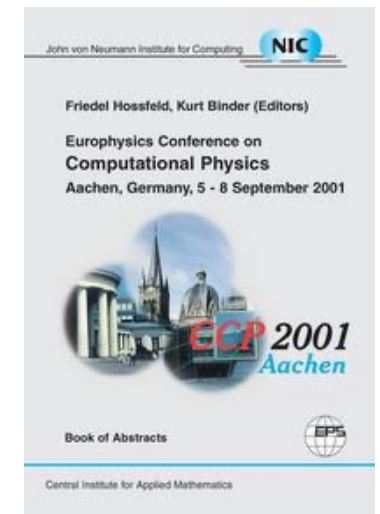


# FAREWELL OF DR. NORBERT ATTIG

21 APRIL 2023 | 25TH ANNIVERSARY OF THE NIC | PROF. THOMAS LIPPERT

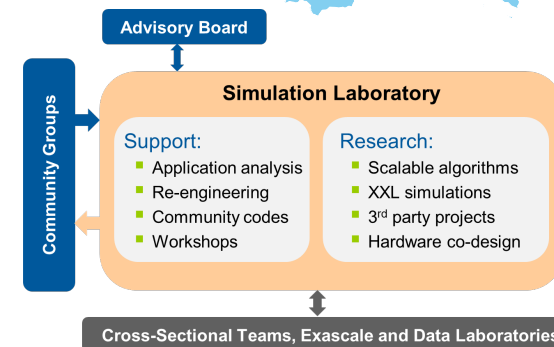
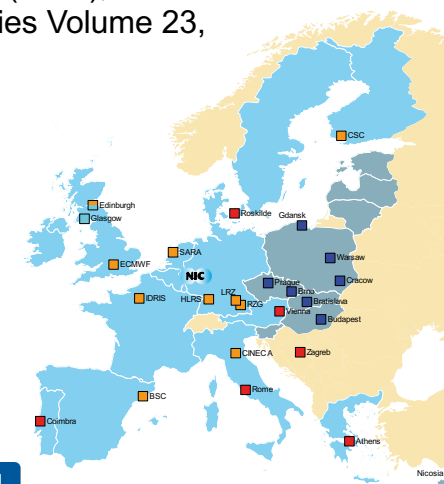
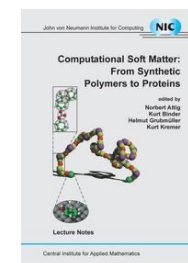
# MY FIRST CONTACTS WITH NORBERT

- A few common visits of LQCD workshops during our PhD times (1987/88)
- First deeper exchange during the conference *Physics Computing* in Lugano, 1994
- Some joint publications followed in the next few years
  - *Running a Code for Lattice Quantum Chromodynamics Efficiently on CRAY T3E Systems*; **Attig, N.**; Güsken, S.; Lacock, P.; **Lippert, T.**; Schilling, K.; Ueberholz, P.; Viehoff, J. (1998), Proceedings of High Performance Computing and Networking Europe 1998 (HPCN), The Netherlands, 21. - 23. April 1998, pp. 183-192
  - *Highly Optimized Code for Lattice Quantum Chromodynamics on the CRAY T3E*; **Attig, N.**; Güsken, S.; Lacock, P.; **Lippert, T.**; Schilling, K.; Ueberholz, P.; Viehoff, J. (1998), Proceedings of the International Conference on Parallel Computing (ParCo'97), Parallel Computing: Fundamental Applications, and New Directions, In: Advances in Parallel Computing, Vol. 12, Editors: E.H. D'Orlander, G.R. Joubert, F.J. Peters, U. Trottenberg, R. Völpel, North Holland, 1998, pp. 557-564
  - *Giant Eigenproblems from Lattice Gauge Theory on CRAY T3E Systems*; **Attig, N.**; **Lippert, T.**; Neff, H.; Negele, J.; Schilling, K. (2001), Comp. Phys. Comm. **142** (2001), pp. 196-200
- Norbert was the Scientific Secretary of the *Conference on Computational Physics (CCP 2001)*; Chairmen were Friedel Hoßfeld and Kurt Binder; 400 participants from 42 countries
  - *Proceedings of the Europhysics Conference on Computational Physics*; **Attig, N.**; Esser, R.; Kremer, M. (Eds), Comp. Phys. Comm. **147** 1-2 (2002), pp. 1-758
- Norbert made me aware of the successor position of Prof. Friedel Hoßfeld, Head of ZAM, in 2002  
Lots of discussions followed and my application was finally successful in 2004.



# SELECTED HIGHLIGHTS OF NORBERT'S WORK

- In 2004 Norbert organized together with Kurt Binder, Helmut Grubmüller and Kurt Kremer the NIC Winter School *Computational Soft Matter: From Synthetic Polymers to Proteins*
  - *Computational Soft Matter: from Synthetic Polymers to Proteins*; **Attig, N.**; Binder, K.; Grubmüller, H.; Kremer, K. (Hrsg.) (2004), NIC Winter School, 29; February - 6 March 2004, Gustav-Stresemann-Institut, Bonn, Germany - Lecture Notes; NIC Series Volume 23, ISBN 3-00-012641-4, 474 Pages
- The NIC initiative *Strengthening Computational Science in Europe (SCSE)* towards the new EU member states was launched in January 2006
  - *The John von Neumann Institute for Computing (NIC): A survey of its supercomputer facilities and its Europe-wide computational science activities*; **Attig, N.** (2006), Nuclear Physics B Proceedings Supplement, **153** (2006), 1, 3 – 8
- Development and implementation of the Simulation (and Data) Lab concept
  - *Simulation Laboratories: An Innovative Community-Oriented Research and Support Structure*; **Attig, N.**; Esser, R.; Gibbon, P. (2008); Proceedings of the Cracow Grid Workshop (CGW'07), 16.-18. Oktober 2007 / eds.: M. Bubak, M. Turala, K. Wiatr. - Krakow, Polen, ACC CYFRONET AGH, ISBN 978-83-915141-9-1, pp. 1 – 9
- In 2007 Norbert became head of the application support division



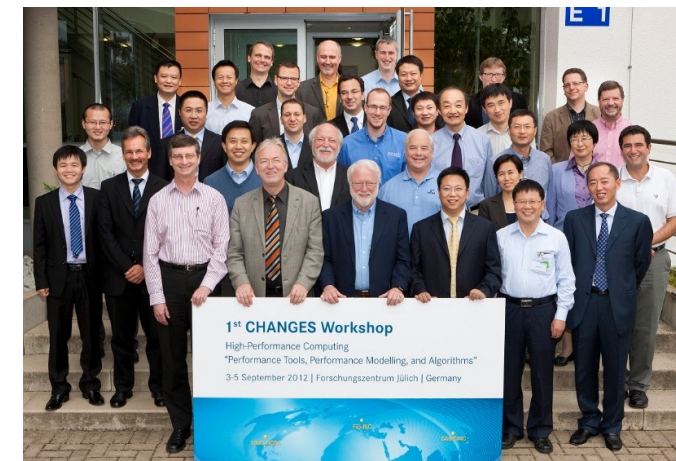
# SELECTED HIGHLIGHTS OF NORBERT'S WORK II

- Major contributions to the setup of the Gauss Centre for Supercomputing (GCS), its governance and the GCS Lenkungsausschuss (since 2007)
- Similar work with respect to JARA-HPC (since 2010)
- Coordination of the *Helmholtz Compute and Data Concept* (2010-2012)
- In 2012 Norbert became JSC Deputy Head together with Thomas Eickermann
- Supporting the establishment of a regional HPC centre CaSToRC in Nicosia, Cyprus by working in the EU CSA projects LinkSCEEM and LinkSCEEM-2 and the Cyprus national project Cy-Tera during the period 2007-2016; additionally, Norbert was acting as the head of the Research Allocation Committee (2010-2016)
- Involvement in further nationally- and EU-funded projects, among them PetaGCS, SiVeGCS, I3HP, DEISA, PRACE, EoCoE, Sano



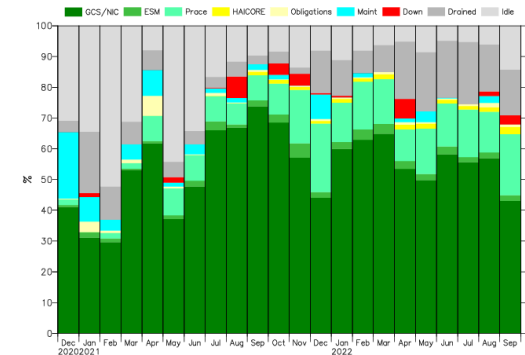
# SELECTED HIGHLIGHTS OF NORBERT'S WORK III

- Shaping the setup of *CHANGES*, a Chinese, American and German initiative in HPC (2012) and later (2015) the setup of the international consortium *Joint Lab on Extreme Scale Computing*
- Identifying and negotiating support actions for a huge data analysis at JSC for data received by the Alpha Magnetic Spectrometer on the International Space Station (since 2012)
  - *Electron and Positron Fluxes in Primary Cosmic Rays Measured with the Alpha Magnetic Spectrometer on the International Space Station*, M. Aguilar, et al., incl. **N. Attig** and Th.Lippert (2014), Phys. Rev. Lett. **113**(12), 121102, 10.1103/PhysRevLett.113.121102
  - *Observation of Complex Time Structures in the Cosmic-Ray Electron and Positron Fluxes with the Alpha Magnetic Spectrometer on the International Space Station*; M. Aguilar, et al., incl. **N. Attig** and Th. Lippert, et al.: Phys. Rev. Lett. **121**(5), 051102 (2018), 10.1103/PhysRevLett.121.051102.
  - *The Alpha Magnetic Spectrometer (AMS) on the International Space Station: Part II – Results from the first seven years*; M. Aguilar, et al., incl. **N. Attig** and Th.Lippert, Physics Reports **894** (2021), 1-116.
  - *Properties of Daily Helium Fluxes*; M. Aguilar, et al., incl. **N. Attig** and Th.Lippert, Phys. Rev. Lett. **128**(23), 231102 (2022), 10.1103/PhysRevLett.128.231102
- Improving the relationship between DKRZ and JSC; successful acquisition of third-party funding from the Helmholtz association (15 M€) for a Tier-0/1 compute partition on JUWELS for Earth System Modelling (2017)
- Preparing for Exascale: Setup of the FZJ-MPG initiative (2020), contributing to the Exascale proposal (2022)



# CONTINUOUS ACTIVITIES

- From 2005 to 2020 Norbert served as the topic speaker for the supercomputer facility in the Helmholtz programs *Scientific Computing* (2005-2009), *Supercomputing* (2010-2014) and *Supercomputing & Big Data* (2015-2020), was responsible for coordinating the program proposal in 2013 and the annual progress reports up to including 2022.
- From 2004 to 2022 Norbert represented the JSC in almost all compute time granting meetings (GCS, NIC, FZJ-VSR, JARA-VGG, ESM, HAICORE)
- Norbert pushed the idea of participating in the ISC and SC exhibitions with a JSC booth since the end of the 90ies and realized it the first couple of years



ISC 2000



SC 2022

# FAREWELL NORBERT AND ALL THE BEST TO YOU !!



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