



Welcome to the 12th Gravitational Wave Physics and Astronomy Workshop

Twitter hashtag: #GWPAW12

Bruce Allen

**Max Planck Institute for Gravitational
Physics**



Host Institution: the Max Planck Institute for Gravitational Physics (Albert Einstein Institute or AEI)





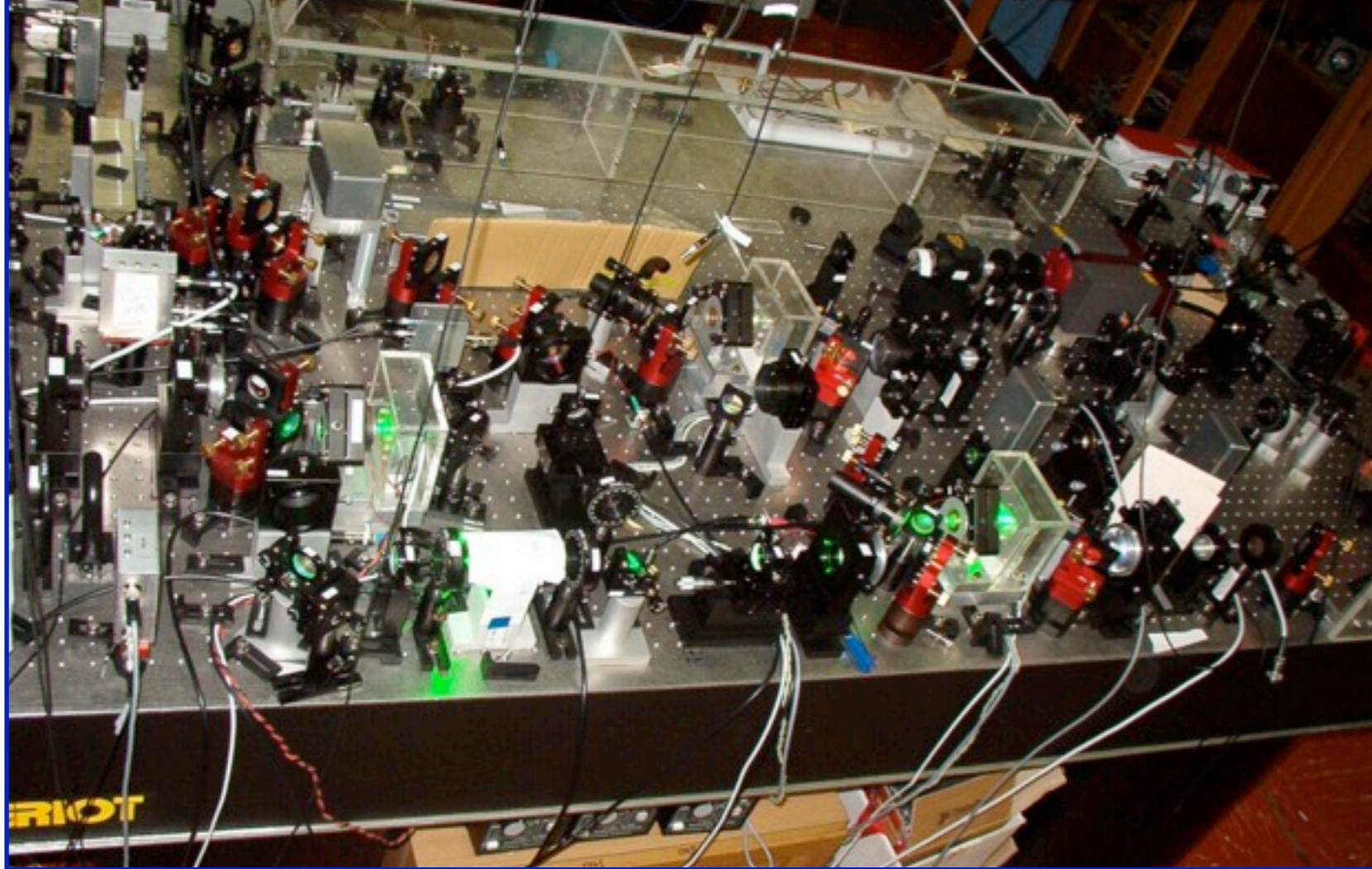
AEI Founded in 1995



- About 350 people total
- Core funding: Max Planck Society
- AEI Golm (near Berlin)
3 divisions, **Huisken, Nicolai, Schutz**
focus more theoretical
- AEI Hannover
2 divisions, **Allen, Danzmann**
focus more experimental
- AEI Hannover is a cooperative effort between Max Planck Society, Leibniz University Hannover (LUH) and State of Niedersachsen



GEO600

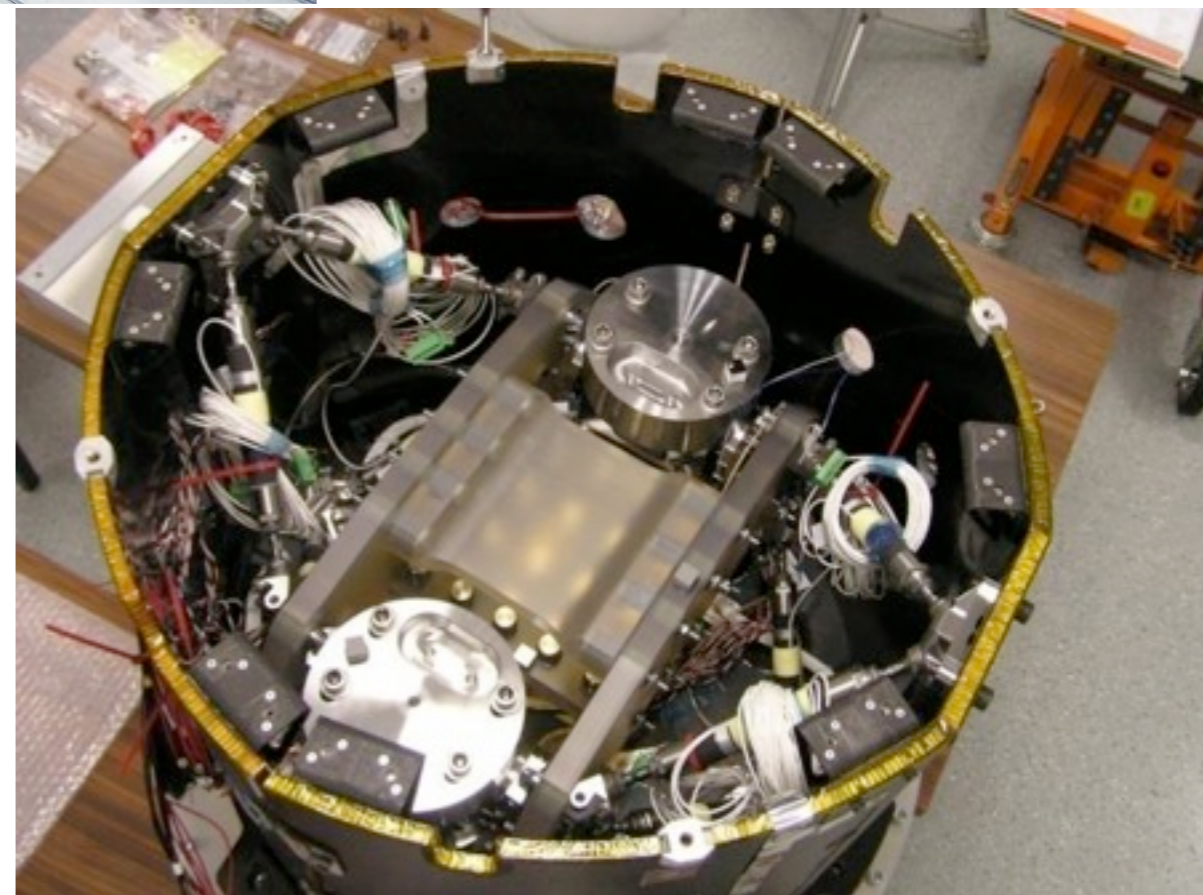
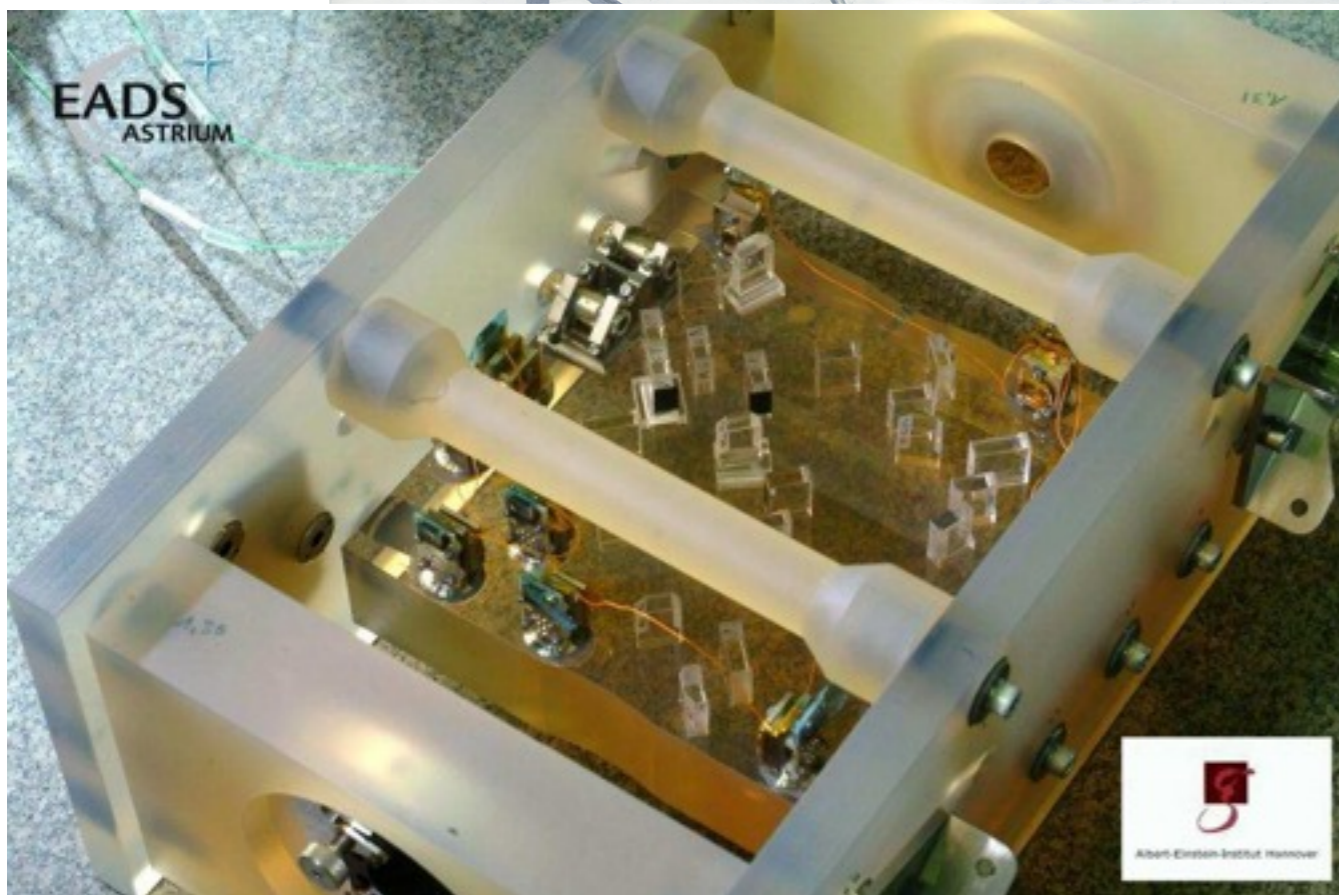


**Tour:
this
evening**

LISA Pathfinder



**Tour:
Wednesday
Evening**



LIGO Hanford (USA)



GEO600 operated by AEI



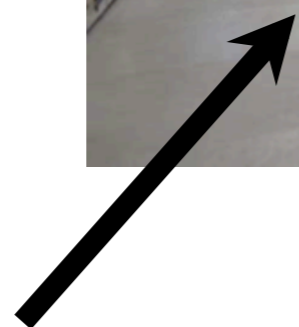
LIGO Livingston (USA)



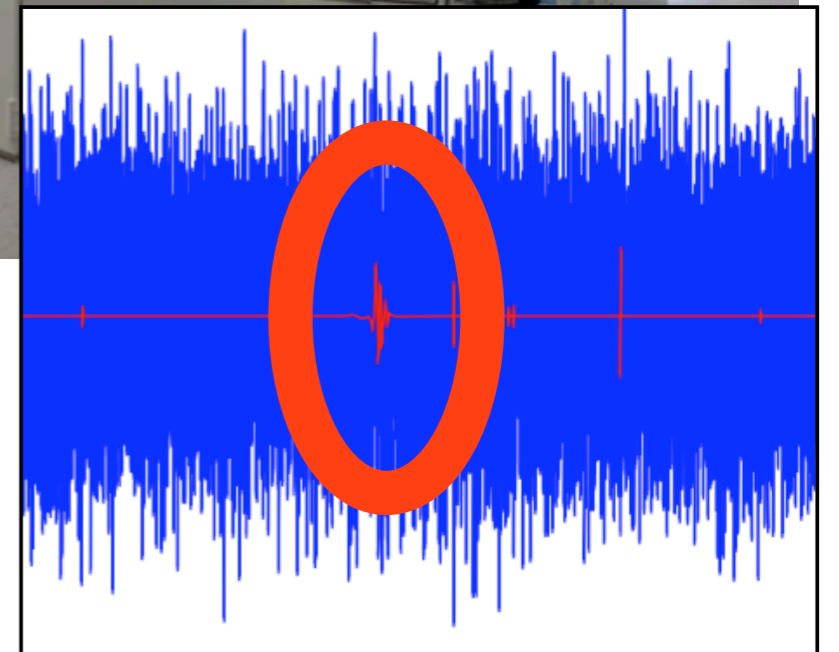
VIRGO (Pisa)



Largest Dedicated Computer Cluster in the World for GW Data Analysis at AEI



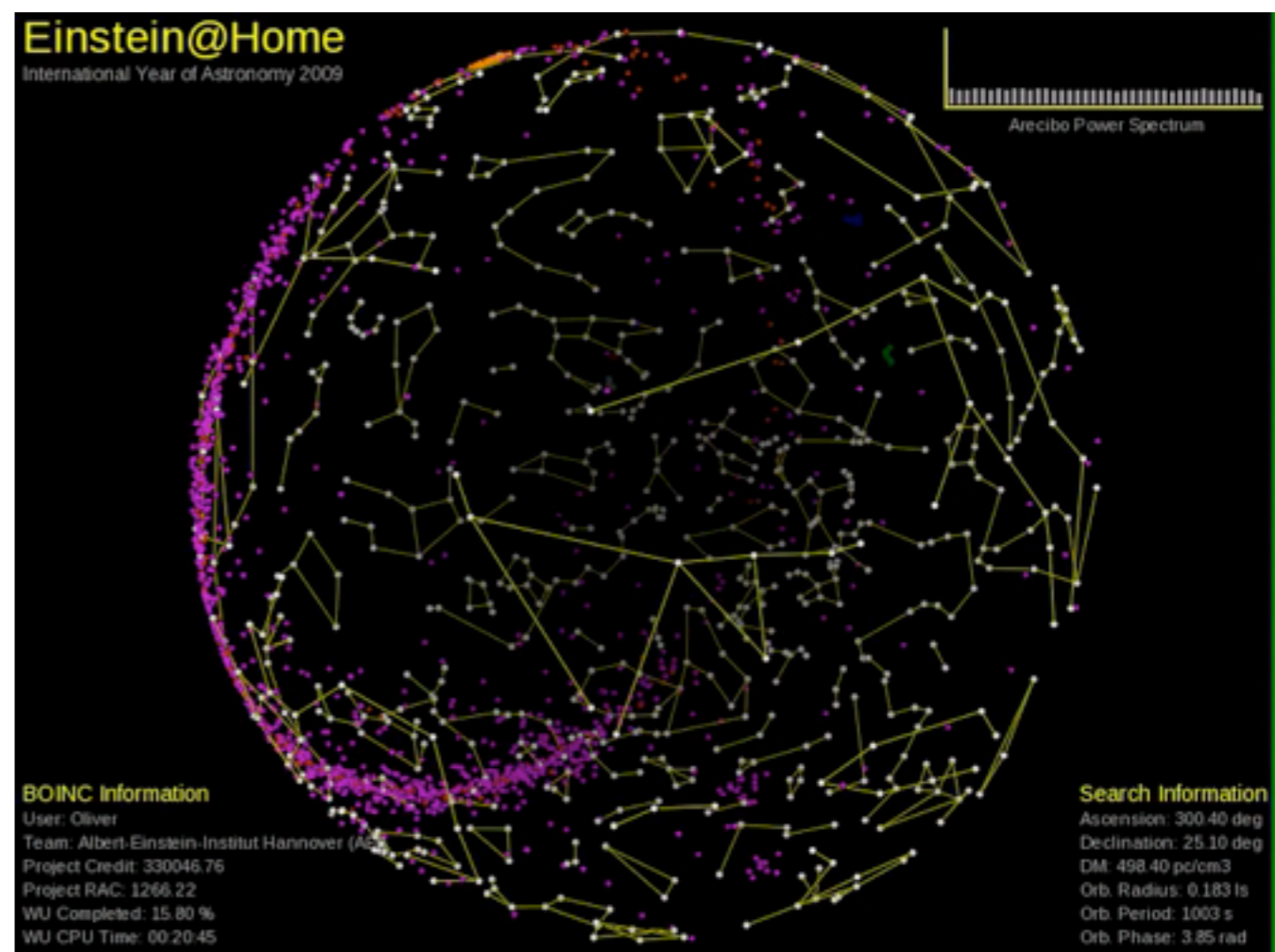
**ATLAS
Tour:
Wednesday
Evening**





Einstein@Home

The screenshot shows the Einstein@Home website with various sections including 'About Einstein@Home', 'User of the Day', and 'News'. The news section contains several articles, such as 'Arecibo binary pulsar re-discoveries page updated' and 'First Einstein@Home Discovery!'. The website also features a search bar and navigation links.



- Launched 2005
- More than 300K volunteers
- More than 100k computers contact servers each week asking for work.
- Currently 600 TFlop/s

- LSC publications: all-sky blind search upper limits on continuous gravitational-wave sources in LIGO S4 and S5 data
- Has discovered 40 new pulsars in radio data
- Also searching data from the Fermi satellite



This Workshop

- **Everyone:** Please fill out the attendance form:
<https://gwpaw2012.aei.mpg.de/attendance>
- **Speakers: please upload your talks in advance!**
- **Keynote speakers:** please pay conference registration fee and we will reimburse you
- **Hang your posters today for the poster session tomorrow**
- **Other events:**
 - Monday evening: tour of GEO
 - Wednesday very early morning: transit of Venus
 - Wednesday evening: conference barbecue @ AEI and tours
- **Lunchtime meeting of SOC - announced via email**



Meeting Structure



- Keynote talks: 30 + 10
- Contributed talks: 20 + 5
- Sessions are 90 minutes with breaks for coffee and lunch
- Poster session tomorrow (Tuesday) from 09:00 - 10:30

Scientific Organizing Committee:

Bruce Allen (Chair) - AEI Hannover, Germany
Marie Anne Bizouard - U. Paris - Sud, France
Patrick Brady - UWM, USA
Duncan Brown - Syracuse University, USA
Laura Cadonati - U. Mass, Amherst
Chad Finley - Stockholm University, Sweden
Jason Hessels - ASTRON, Netherlands
Nobuyuki Kanda - Osaka City University, Japan
Albert Lazzarini - LIGO Caltech, USA
Benoit Mours - LAPP, France
Benjamin Owen - PSU, USA
Maria Alessandra Papa - AEI Golm, Germany
Fulvio Ricci - La Sapienza, Italy
Peter Shawhan - U. Maryland, USA
Tarun Souradeep - IUCAA, India
Graham Woan - U. Glasgow, UK

Local Organizing Committee:

Carsten Aulbert (Chair)
Henning Fehrmann
Gina Gerlach
Holger Pletsch
Alexander Post
Karin Salatti-Tara