

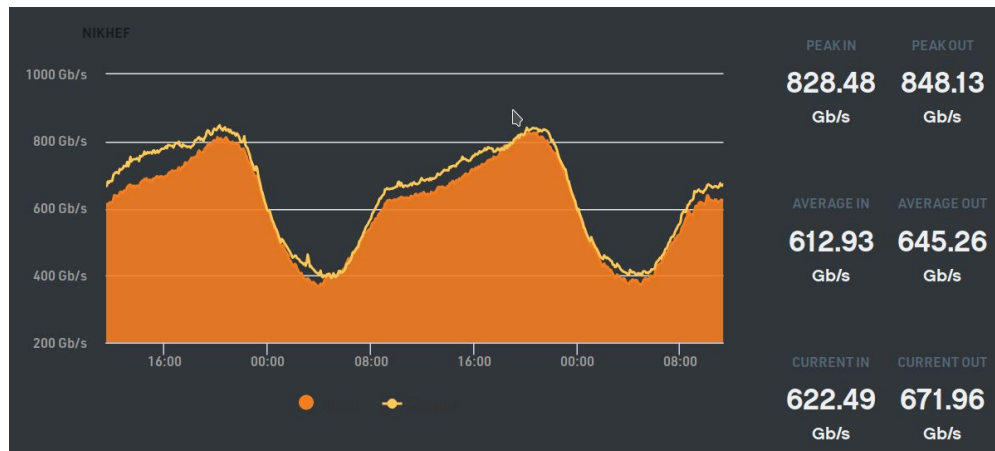


# Supporting Large-Scale eScience in the Netherlands

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HOW2019, Jefferson Lab

# Nikhef

- Dutch National Institute for Subatomic Physics
- Particle & Astro-Particle Physics
- Gravitational Waves
- Detector R&D
- Mechanical and electronics design
- Cleanrooms & large workshop
- Houses part of AMSIX
- Partner in national e-infrastructure (lead by neighbour SURFsara)
- Involved in WLCG from beginning



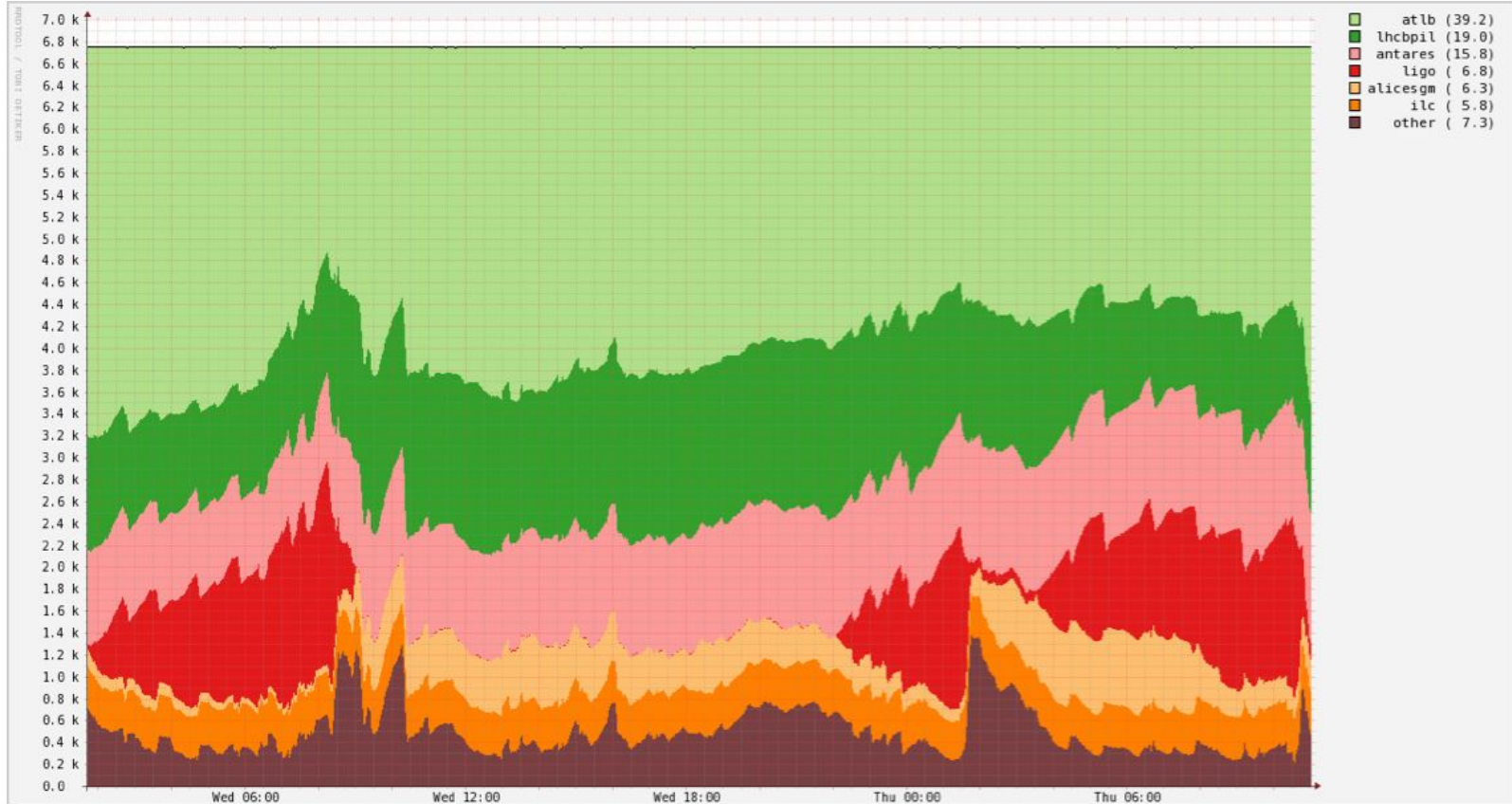
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# Physics Data Processing

- Separate group within the institute
- Support and run grid cluster
  - LHC: ATLAS, LHCb, ALICE
  - AUGER, ANTARES
  - LVC, ILC, DUNE
  - Xenon1T
  - weNMR, MINE
- Stoomboot
- Strong AAI involvement
- Experimental Hardware
- Scientific Software



# Experience with OSG





## Experience with OSG

- Generally a pleasure
- Xenon1T worked first
- Very smooth to add LIGO
- Clear communication
- Professional attitude
- Privacy and security required work
- US is a single legal domain, but trust and AAI more complex internationally
- StashCash issues related to AAI policy
- Now fixed



# Future

- Continue fruitful collaboration with OSG
- Grid is increasingly a niche infrastructure
- Finding the right new model is a challenge
- OSG success outside of HEP shows what is possible
- International context has additional challenges
  
- Have to look for common solutions
  - AAI
  - Costing