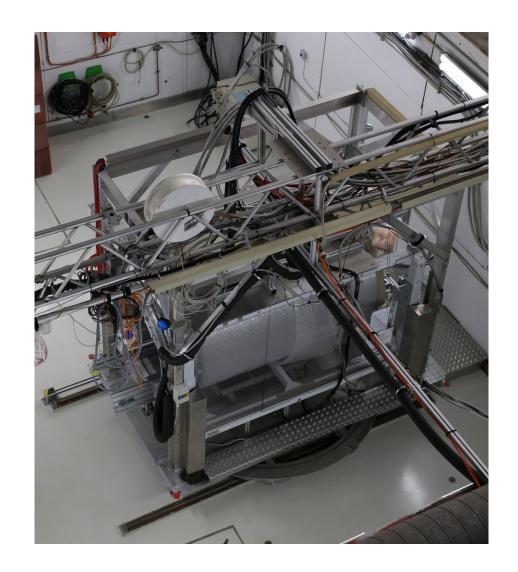


Developments at the DESY II Testbeam Facility

- Ongoing
 - (Lycoris telescope in own, separate presentation)
 - Re-design / -build sled for large prototype
- Todo
 - Install and align alignment lasers in T24/1
 - Inclusion of stage and prototype position in SC
 - Automatic switching of PCMAG warning lamps
- Test beam general
 - Power distributions for test beam being installed; planning started for the rest of the hall
 - New hall windows planned to be installed till this summer
 - New user hut (to replace blue container) on the list
 - New primary targets being in development



Test Beam Schedule

Overview last years + 2020

- 2017: No LCTPC testbeam
- 2018
 - Some tests for external telescope
 - November: Micromegas modules with mesh at 0 V and space frame end plate
- 2019: No LCTPC testbeam
 - Lycoris external telescope tests
 - T2K in June
- 2020: busy again with CERN shutdown and LHC detector upgrades still going on (*T24 using 3*rd telescope)
 - Fully (over-)booked: people on waiting list
 - Scheduled: Lycoris, CEPC-TPC, LCTPC-Pixel, T2K



Future / PETRA IV

- Multi-bunch
 - Installed and was in operation in user mode

Increase not as much as hoped for;
 some effects not
 fully clear

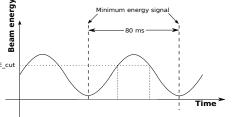


Fig.: DESY II energy cycle

- 4th beam line
 - Proof of principle tests slightly delayed
 - R-Weg cleaned up and now being equipped (network, beam dump, interlock etc.)
 - Final installations probably in coming summer shutdown



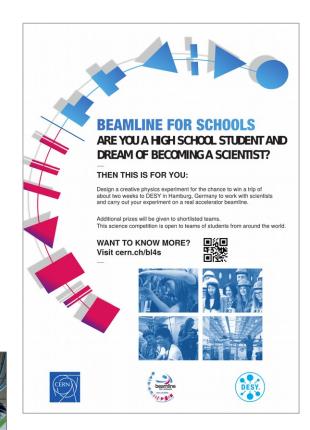
- Petra IV
 - Project is gaining speed
 - With DESY IV as envisaged tricky to generate test beams as it is done now: not much space, requirements on beam quality
 → Options:
 - Find ways to incorporate test beam creation in this scheme?
 - Keep DESY II and test beam running as it is in parallel? Costs/Budget?
 - Necessity/importance of test beams established
 - Many things/options being discussed

DESY. | LCTPC Collaboration Meeting 2020

Education/Outreach

- Beamline For Schools https://beamlineforschools.cern
 - Teams of high school students can propose experiments at a beam line
 - 2 winning teams can perform their experiments supported by scientists
 - Very successful project at CERN, during LS2 DESY is hosting
 - Big success last year
 - Registration for 2020 until March 31st
- EDIT2020 https://edit2020.desy.de
 - Gas detectors in lab only, not at test beam
 - Getting closer, preparations need to be finished
 - GEM + GridPix





Call for your Support

- We have to justify the test beam facility
- Please always include the following acknowledgment sentence in all publications, presentations and posters based on data taken at the DESY II test beam:

"The measurements leading to these results have been performed at the Test Beam Facility at DESY Hamburg (Germany), a member of the Helmholtz Association (HGF)".

Also, don't forget the AIDA(2020) acknowledgments where appropriate:
 "This project has received funding from the European Union's Horizon 2020 Research and Innovation programme under Grant Agreement no. 654168."
 or the short version "Supported by the H2020 project AIDA-2020, GA no. 654168."

Especially if you received support by the transnational access ... also this support program needs to be justified

Links and Information

- Web page: testbeam.desy.de
- Announcements mailing list: lists.desy.de/sympa/subscribe/testbeam-info (calls for beam time requests come via this!)
- General test beam paper:
 "The DESY II test beam facility"
 NIMA, Volume 922, 1 April 2019, Pages 265-286

More links, documents, information and calendar on the web page