



LCTPC topics

DESY meeting on 13-14 January 2020



Tuesday morning:

- Construction of the 8-Quad module (20' Fred)
 - Mechanics and electronics; test beam plans
- Measurements on Quad operating point (15' Fred)
 - Gases, efficiency, gain, UV photons, resistivity protection layer
- Quad and 8-Quad performance (20' Kees)
 - Quad paper and 8-Quad laser test
- Pixel TPC simulations (15' Kees)
 - Geometry and combined tracking



Tuesday morning:

- Pixel TPC research plans (5' Peter)
 - Improvement of resistivity TPX3 layer SiN
 - Ion Back Flow measurement Quad
 - Test beam 8-Quad module -> improvements
 - Negative Ion Pixel TPC tests
 - TimePix4 potential: larger coverage, through via's, easier tiling
- Pixel TPC for the CEPC (Peter 20', Monday afternoon)
- Critical items for read out technology LC TPC choice (Peter 10', Tuesday 14:00)
- Pixel Module costing estimate (Peter 5', Tuesday 16.00)

