OLYMPUS Collaboration Meeting 26./27. April 2011

J. Diefenbach

#### T22 status/schedule:

- Beam species can now be switched between electrons and positrons (upgrade to selection dipole after request from Mainz)
- Setup can start this week (after the collaboration meeting)
- whole May: beam (one week possible break)
- SYMB (Mainz)
- MWPCs (Petersburg)
- GEMs (Hampton)

### Infrastructure:

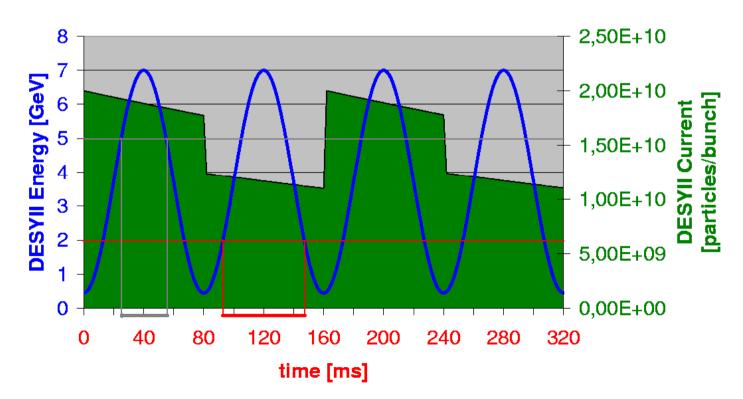
- Gases have been ordered (Uwe)
- ocontrol2 for private network in T22 area (Bonn) and storage (several TB)
- 8 port switch in counting room
- 6 RJ45 cables to testbeam enclosure
- lots of motivated people from Mainz!

Don't forget to bring your favorite oscilloscopes, screw drivers, etc.!

#### Beam:

- electrons / positrons user-switchable (SYMB request)
- up to ~6 GeV, 5% energy width, stability ~10⁴
- ~10<sup>4</sup> particles/s at 2 GeV
- beam size ~cm (user-controlled primary collimator)

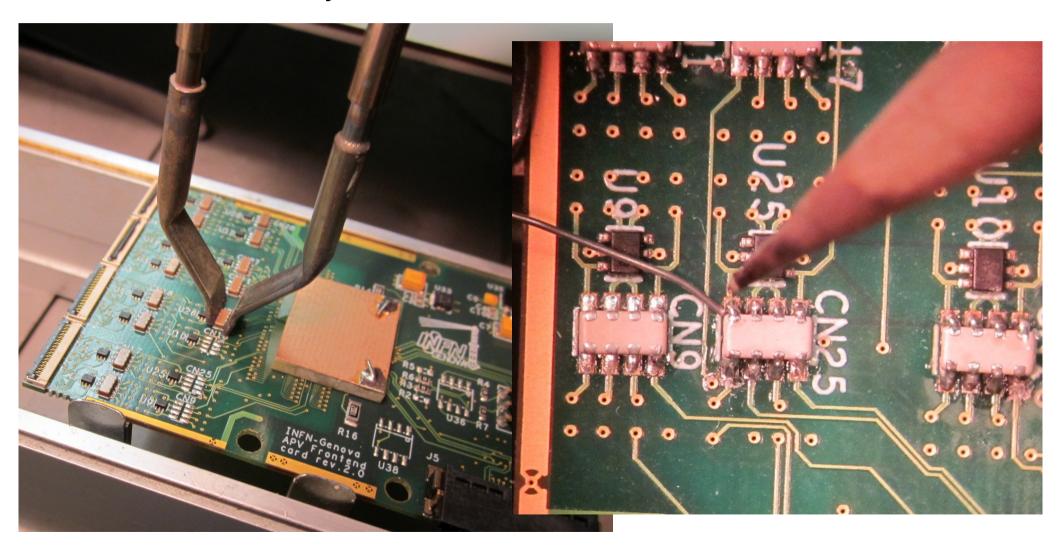
## Ideal DESY II Cycle (no extraction)



OLYMPUS Testbeam – OLYMPUS Collaboration Meeting – 26./27.April, 2011

## **OLYMPUS Testbeam: GEM Lumis**

During Ester changed 128 coupling cap arrays from 1nF to 10pF in Mainz – now they're matched to our readout boards



## **OLYMPUS Testbeam: GEM Lumis**

## Goals for GEM Lumis:

- See signals from beam electrons with every detector module (9 detectors in total)
- Scan HV with beam to determine nominal operating HV (efficiency!)
- Move detectors for spatial efficiency scan
- Combine GEM and MWPC data (relative positions)
- Combine GEM and Si tracker data (GEM resolution)
- Test implementation in OLYMPUS DAQ