

Front Tracker Status

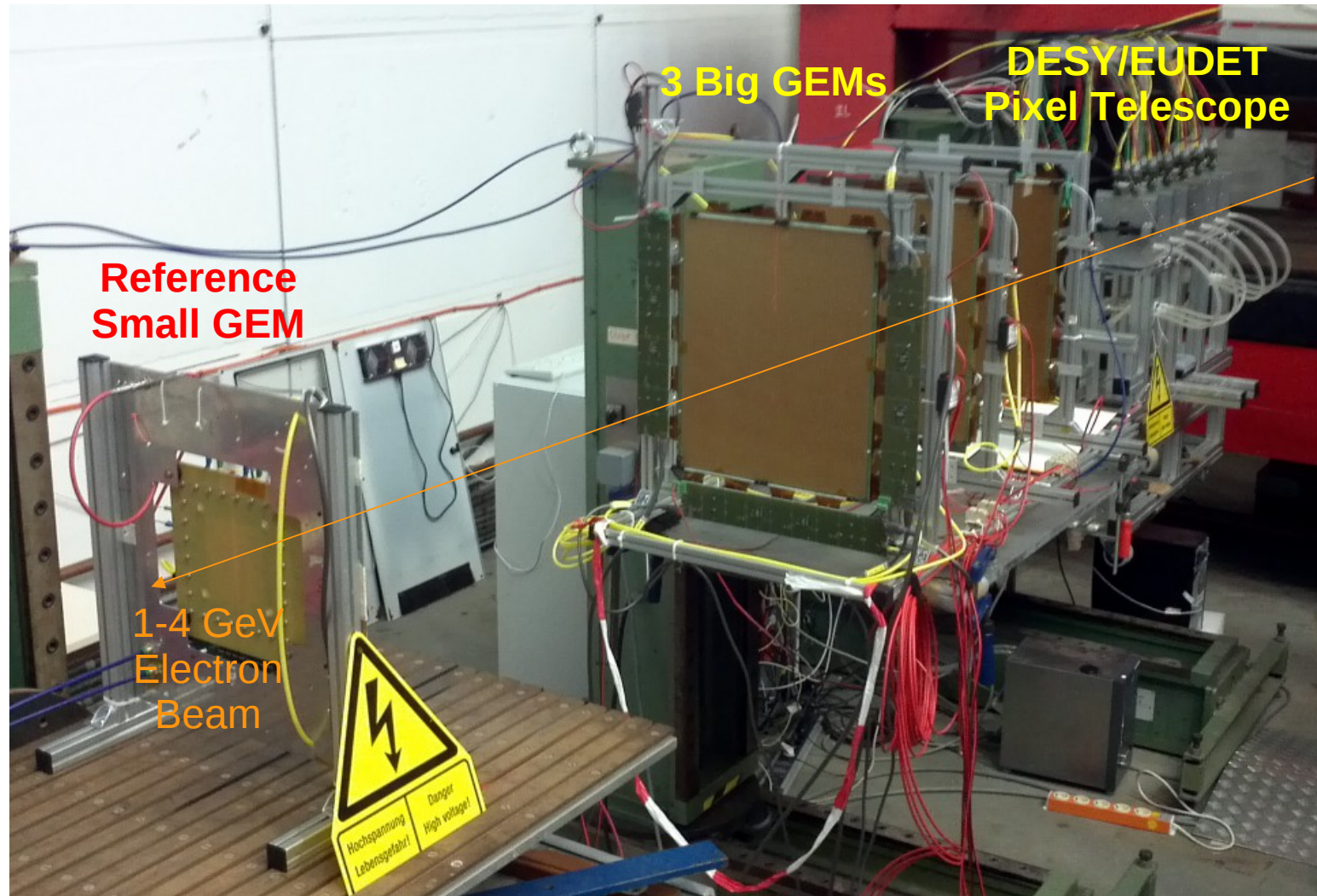
- **Electronics Production**
 - Minor bug in Front-end card fixed, 55 new cards produced, all but 1 passed Quality Checks
 - Proceed with production of the rests
- **GEM assembling**
 - 4th chamber (new GEM foil design) under assembling (80% done)
- **GEM characterization**
 - 11 days of new beam test at DESY (21-31/Jan) (next slide)
- **Software**
 - First implementation of a track reconstruction algorithm based on Kalman Filter

Jan 2014 / New Beam Test @ DESY

Small scale
final system
(gas, LV, HV
monitored)

Main Goals:

- Characterize chambers in terms of efficiency and spatial resolution at different HV, gas mixture.
- Figure out the gain variation of the previous test



- Got lot's of good data with high spatial resolution information from pixel telescope
- No gain drops during test (all conditions carefully monitored)