

#### The THz beam line at 140 m

• evacuated beam line, ~20m long, transporting transition radiation

from electron beam line to outside the tunnel

8 focussing and planar mirrors

- covers wavelengths 1.5 mm to optical
- source : off-axis screen + LOLA kicker





# history

till 31.3.2007: end statio

dismantled beginning o

summer 2007: construc

since October: installati

development of THz diagnostic tools fast and sensitive pyro sensors single shot spectrometer(s) CTR spectra 1 µm - 300 µm

-> Hossein Delsim-Hashemi talk ?



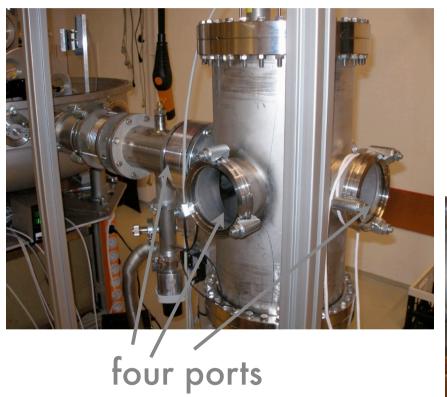


## 28g room 04





## distribution chamber



rotating mirror



## plans

- short term (Jan Feb): spectroscopy at short wavelengths ( $\leq 10 \ \mu m$ ) simultaneously with optical TR
- mid term: installation of 4-stage single shot spectrometer 6  $\mu m$  200  $\mu m$
- options : combination of THz radiation and laser pulses

### thanks

• to all the technicians and engineers who worked a lot to get 28g operational