



Machine studies:
 Proton BPM Checks,
 Transverse e-Feedbacks
 Optics Check HERA-e
 Beam beam effect

e+ high currents,
 long. Feedback,
 near by mode feedback,
 38mA at 12 GeV,
 problems at transmitter WR

Proton energy scan:
 50mA...60mA,
 unexpected pressure
 increase around the
 machine...?

Collision run

Collision runs:
 Beam dump due to
 hard ware problems,
 Exp. Background,
 Fake exp. Alarms

Problems at e+ injection:
 Unexplained beam losses
 durng first 100 turns
 → stable proton beam

**Technical problems at
 preaccelerators: no e/p
 beam
 e+ injection studies**

**Stable proton beam,
 e+ injection studies**