

# Operating the HERA resonant depolarizer

- Getting started
    - Kicker magnet, driven by frequency generator
    - Switch on, carefully increase amplitude (2 hours)
    - Scan frequency range 20–22 KHz with 1 Hz/second (1 hour/scan) until resonances are found (3 hours?)
  - Risetime calibration
    - Depolarize beam, measure risetime (2–3 hours per scan, 20 scans total). Avoid beam-beam effects: no collisions.
  - Proposal (review each Tuesday)
    - HERA contacts Polarimeter (4136) if  $I_e < 20$  mA or no protons for more than 2 hours.
    - If depolarizer expert is ready:
    - HERA minimizes disturbing effects (separate beams or dump protons)
    - Experiments switch off detectors (safety)
    - After 2-3 hours ask Polarimeter expert to stop
- About 2 hours of HERA per work-day for depol.

Note: need  $> 15$  mA (good polarimeter performance)