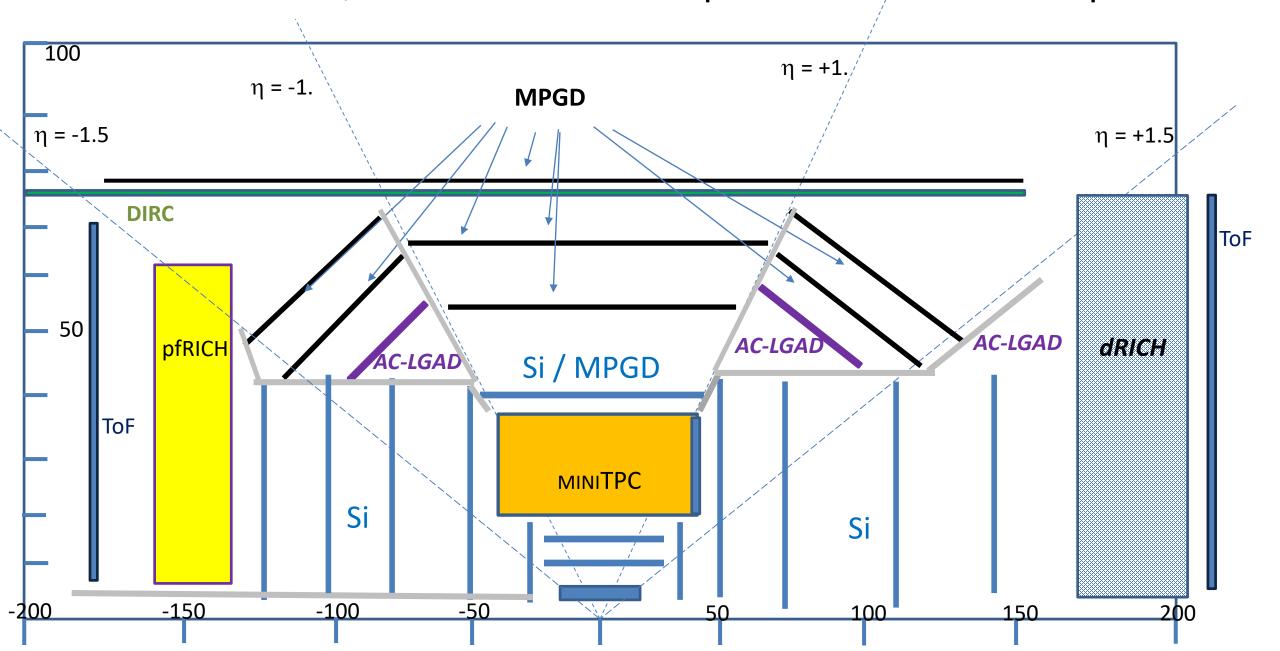
GENERAL D1 tracking / PID comments

- 1. Original ECCE tracking / PID setup does not fit the YR request.
- -- "Fast" simulations were dome using unrealistic material thickness and hit smearing parameters with a misleading conclusion.
- -- BaBar magnet, 1.4 T B-field is not good enough for high precision momentum reconstruction.
 - -- Very small number hits / track is extremely "sensitive" to background.
- -- PID (ToF) proposed R-position does not work up to 0.3 GeV/c (~30% of all particles in +/- 1.5 rapidity).
- 2. A lot of barrel tracking simulation were done for (1. 20.) GeV/c. The optimization should be done for (0.1 1.0) GeV/c (>85% of all (hadron) particles).
- 3. It should be checked / simulated the option of the barrel (+/-1 rapidity) with miniTPC on (low mass, very good PID up to 0.7 GeV/c, ~3000 hits / track exactly fits all demands for low momentum particle track finding and reconstruction),
- and "projective" setup for +/-(1.-1.5) rapidity. (Alexander's original idea; see next slide).
- 4. Expedite the production of the "spare" magnet with \sim (2. 2.5) T B-field.

Cartoon, as an idea for possible D1 setup



Cartoon \rightarrow (KG modif), as an idea for possible D1 setup

