

# To-Do list for SiD

- ☐ Double-check the GuineaPig parameters that Anne used for the backscatter studies
  - ☐ Double-check the field maps from the anti-DID and the final focussing magnets
- ☐ Double-check the Geant4 parameters that were used for those studies
- ☐ EM showers: What dynamic range is required for the readout?
  - ☐ 500 GeV? 1000 GeV?
- ☐ Cell size for EMCal?
- ☐ Tracking performance (pt resolution) degraded from CDR to DBD
- ☐ low-pt tracking performance shows some strange features
- ☐ impact parameter resolution shows a charge-dependent bias
- ☐ forward region not optimized – two large clusters due to background in 1 TeV running
- ☐ Tracker layout not optimized for air cooling (disks close off the barrel)
- ☐ Tracker barrel aspect ratio not optimal. Barrel should be longer
- ☒ KPIX buffer too small in forward region
- ☐ Study of Neutron Flux (<http://www.slac.stanford.edu/cgi-wrap/getdoc/slac-tn-07-013.pdf>)
- ☐ MAPS tracker – what's the advantage? --> Bristol
- ☐ MAPS ECAL – is it better than the Analog ECAL?