

# DBD Physics Background Issues

- ★ **Overlay mechanism**
  - **OverlayTiming** – does it meet **ILD** requirements (yes?)
- ★ **Gamma gamma** → hadrons; two options:
  - add background to all events at digitisation level
    - **potential issues with grid processing**
  - add reconstructed background at analysis (DST) level
    - **neglects “pile-up” effects, probably OK for ILC**
- ★ **Pair background**
  - It is **not an option** to include full pair background in DBD physics production
  - **Need to repeat standalone studies at 1 TeV**
    - **will have new tracking code, potentially easier**
  - Could conceivably include high pT component in physics
- ★ **Impact on forward tracking**
  - Need to **first** ILD study
    - **BUT depends on having FTD digitation + reconstruction including ghost hits from stereo strips**