

# New 6f Production at 500 GeV

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## dirac & ilcdircac

- `dirac` (\*) project is a complete Grid solution.
  - `dirac` forms a layer between a particular community and various compute resources.
- `ilcdircac` forms a layer on top of `dirac` providing the computing needs of linear collider experiments.

## Future ILD Mass productions with ilcdircac

- ILD has decided to use `ilcdircac` in its next mass productions.
  - Reliable, scalable, easy to use, good experts support.
  - Other experiments already using it: CLic, BelleII, Sid.
- Two official request already completed.

(\*) Distributed Infrastructure with Remote Agent Control

# 6f Production @ 500 GeV

## Motivation

- Original 6f\_ttbar samples at 500 GeV show duplicates.
- 6f samples at 500 GeV not enough statistics for several analysts.

## Simulation/Reconstruction Conditions

- Large statistics:  $L = 15 \text{ ab}^{-1}$  per process.
  - Total N events:  $< \approx 31 \text{ Mevts}$ .
- DBD settings: ildconfig v01-16-p05\_500 (\*)
- No REC files: Just Mokka files and DST were produced (\*\*).

(\*) With no modifications, in particular, same  $\gamma\gamma \rightarrow \text{hadrons}$  .

(\*\*) We were forced to delete them during one incident.

- At the moment samples are available just at KEK.

**sim** = *DIR\_SIM* (new samples total size 56.9 TB)

- `/ilc/prod/ilc/mc-dbd/ild/sim/500-TDR_ws`

**dst** = *DIR\_DST* (new samples total size 1.7 TB)

- `/ilc/prod/ilc/mc-dbd/ild/dst/500-TDR_ws`

### sub-directories

```
6f_eeWW
6f_llWW
6f_ttbar
6f_vvWW
6f_yyyyZ
6f_xxxxZ
6f_xxWW
```

(\*) *ilcdirac* samples 2 level directory deeper

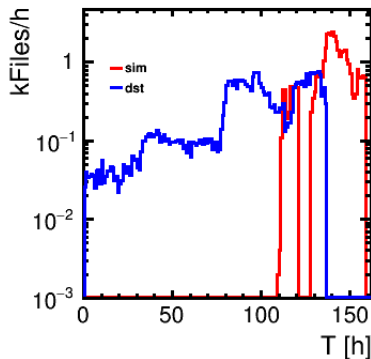
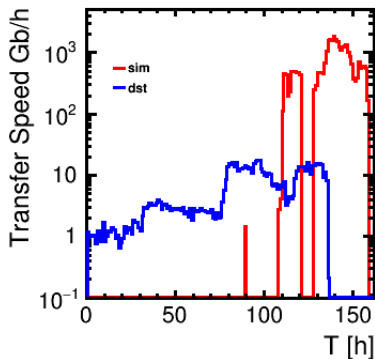
```
DBD:
DIR_DBD=${DIR_SIM}/6f_llWW/ILD_o1_v05/v01-14-01-p00/
${DIR_DBD}/sv01-14-01-p00.mILD_o1_v05.E500-TDR_ws.I37000.P6f_llxyev.eR.pR-00001.slcio
NEW:
DIR_NEW=${DIR_SIM}/6f_llWW/ILD_o1_v05/v01-14-01-p00/00004863/000
${DIR_NEW}/sv01-14-01-p00.mILD_o1_v05.E500-TDR_ws.I108588.P6f_llxyev.eR.pR_sim_4863_13.slcio
```

- Mass Production with `ilcdirac` : running efficiently.
  - Two official request completed.
  - Ready to accept more request.
- Produced new 6 fermion samples at 500 GeV .



# Transfer Speed Desy to KEK

- x axis spreads from July 24 00:00 JST to July 30 17:00 JST.
  - Indeed, most of the stuff was moved in less than half of this time.
- $> \approx 30$  Tb transferred from Desy into KEK.
  - All DST available at KEK.
  - All SIM at KEK but 2 processes at PNNL.





- Metadata/logs need to be copied to the official location.
- <http://ilcsoft.desy.de/dbd/generated>.
  - The link to 6f at 500 GeV is wrong (\*)

(\*) It points to <http://ilcsoft.desy.de/dbd/500/6f.html> instead of <http://ilcsoft.desy.de/dbd/generated/6f.html>