

Link TAUOLA to Whizard

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DESY

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1 Installation of TAUOLA

Installation of TAUOLA according to the README-file in the 'Path to TAUOLA' directory:

- in the `photos-F` directory `make4kD-all`
- in the `tauola-F` directory `make aleph`

With the last command, form factors and branching-ratios defined by the ALEPH collaboration are adopted.

2 Modifications to TAUOLA

After installation of TAUOLA:

- The make file in `tauola/makefile` has to be modified:
`tauface-jetset.o tauola_photos_ini.o` have to be added to `LIB_OBJECTS`

```
LIB_OBJECTS = formf.o tauola.o tauface-jetset.o tauola_photos_ini.o
```

- the appropriate object files must be copied to the `tauola` path.
 - copy `tauface-jetset.o` from `tauola/demo-jetset/` to `tauola/`
 - copy `tauola_photos_ini.o` from `tauola/demo-jetset/` to `tauola/`
 - recompilation in `tauola/`
- for convenience, some renaming
 - in the `tauola` directory copy `glib.a` to `libtauola.a`
 - in the `photos` directory copy `glib.a` to `libphotos.a`

3 Modifications to Whizard and the fragmentation code

- Modify/Replace `ilc_fragment_call.f90`,
`ilc_fragment_init.f90` and `ilc_fragment_print.f90` and recompile `a6f`
- in the 'Path to Whizard' directory:
modify the makefile to include the TAUOLA libraries (see `Makefile_modifications.txt`)