GenISys TRACER

Monte Carlo simulator

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Description:

TRACER includes all the essentials needed to combine Monte-Carlo Point Spread Functions (PSFs) and process PSFs into one effective PSF that describe a particular process, to archive and maintain these functions.

Generated PSFs may then be loaded into Beamer.

Capabilities:

- Monte Carlo simulator that allows to compute the electron-solid interaction part of the exposure
- Archive/maintain/manage all point spread functions
- Visualization tool that allows to make a judgment on the quality of the PSF
- Facilitator to combine electron PSFs and process PSFs into an effective PSF or to separate out the process contribution PSF from an experimental PSF

Invoking:

On the CNF conversion computers, the current version of GenlSys LayoutLAB can be invoked with any of the following commands (don't type in the dollar sign, that is the command prompt):

\$ tracer

Documentation:

Material Archive:

Additional Supplemental Materials Files

Additional materials files added by CNF will be located in:

- /usr/local/cnf/tracer/MaterialArchive
- 1. In a terminal type in: printenv HOME
- 2. In the File Properties menu dialogue, click on the Directories tab and set the Local Repository Directory to the output of step 1 followed by a forward slash /.GenlSys/Repository
 - a. It may already be set to this
- 3. Type into a terminal: Is -I /etc/alternatives/TRACER
- 4. In the File Properties menu dialogue, click on the Directories tab and set the Global Repository Directory to the output of step 3, substituting the word 'Repository' for the word 'TRACER'
- 5. Optionally copy the files from /usr/local/cnf/tracer/MaterialArchive to your local Repository/MaterialArchive directory

After making the above changes, you may have to expand/collapse the tree in the left pane of TRACER a few times.

You can create a local copy of the archive using the following terminal commands:

```
# Determine the TRACER version number with:
$ ls -l /etc/alternatives/TRACER

# Optionally copy the additional CNF Materials Archive files
$ rsync -av /usr/local/cnf/tracer/MaterialArchive/ ~/.GenISys/Repository/MaterialArchive
```

```
# For example:
ls -1 /etc/alternatives/TRACER

# Gives output:
lrwxrwxrwx. 1 root root 34 Sep 17 2020 /etc/alternatives/TRACER -> /opt/local/TRACER/2.11.1/bin/TRACER

# So you would set the Global Archive to:
/opt/local/TRACER/2.11.1/bin/Repository
```

Manual and Videos:

- Manual
- Training Videos