This is:

- To **share** current design files w/ LCLS-II collaboration
- For final, previously presented simulations
- With minor support for in-progress design files
- To provide organization for key simulations

This is **not** for:

- MAD decks (already exists, separate)
- Actively exchanging preliminary designs
- Archive purposes

AFS-based UNIX Web Share

- **Read Permit:** World wide, public read access (all are welcome)
- Write Permit: SLAC UNIX acc't + permit req'd for write access
- **Management:** Use favorite SSH/SCP/FTP tools for transfer
- To write, please get SLAC UNIX account, then for permission contact
 - Tim Maxwell (*tmaxwell@slac.stanford.edu*) or
 - Gabe Marcus (gmarcus@slac.stanford.edu)
 - Permissions issued per simulation package (Astra, Genesis, etc.), please indicate access desired

SLAC

Public browser access

http://www.slac.stanford.edu/grp/lcls/lcls-2/ap/sims

UNIX access (acc't required), SSH/SCP to root path

[USER]@flora.slac.stanford.edu:/afs/slac.stanford.edu/www/grp/lcls
/lcls-2/ap/sims

Official design paths are structured as

Organization: Machine-path approach

-SLAC

• Connect simulation combinations as a logical tree, basic path structure:



• "Follow the electron," choose config at each level to proceed through available branches



- Possibly overwhelming, but...
- Path describes whole machine
- No input/output ambiguity
- Less redundancy of input files
- If one sim. is changed, clear which inherit changes

Some initial folders



The following will be initially created for the superconducting linac:

- ../sims/SC/astra_186MHz_300pC_unif/eleg_2BC_1000A
- ../sims/SC/astra_186MHz_300pC_unif/eleg_3BC_1000A
- ../sims/SC/astra_186MHz_100pC_unif/eleg_2BC_1000A
- ../sims/SC/astra_186MHz_100pC_unif/eleg_3BC_1000A
- ../sims/SC/astra_186MHz_20pC_unif/eleg_2BC_750A
- ../sims/SC/astra_186MHz_20pC_unif/eleg_3BC_750A

Each of these will have final undulator subfolders: ../gene_hxr_sase ../gene_hxr_ss ../gene_sxr_sase ../gene_sxr_ss

The following will initially be created for the Cu linac:

../sims/NC/astra_150pC_unif/eleg_3000A_2p5GeV/gene_hxr_sase_1keV

- ../sims/NC/astra_150pC_unif/eleg_3000A_8GeV/gene_hxr_sase_9keV
- ../sims/NC/astra_150pC_unif/eleg_3000A_12GeV/gene_hxr_sase_17keV
- ../sims/NC/astra_150pC_unif/eleg_3000A_15GeV/gene_hxr_sase_25keV



Limited ../sims/scratch/ space available

- When you sign up, we'll make you a folder
 ../sims/scratch/[YOURUSERNAME]
- For sharing near-complete or proposed designs
- *Note:* Scratch is world-wide, publicly viewable
- Write privileges only for you



Structure and permissions management are needed in the official branches...

- Upload everything to a folder in your scratch space
- Notify us you would like folder moved to official listing
 - Tim Maxwell (*tmaxwell@slac.stanford.edu*) or
 - Gabe Marcus (gmarcus@slac.stanford.edu)
- Please note simulation used for input, where applicable

Within /sims there is /support for global support files, e.g.:

- ../sims/support/astra
- ../sims/support/elegant
- ../sims/support/genesis

Notes and links to the software used throughout get posted here along with any custom files (e.g., wake files)

Other Guidelines

- Contact/editor to be posted for each folder, responsible for:
 - Uploading reviewed results and revisions
 - Answering questions about files
- Decks and outputs all in one path
 - e.g.: /SC/astra_186MHz_300pC_unif/eleg_2BC_1000A/.
 - Only contains elegant files
 - Subfolders reserved for subsequent Genesis simulations (not strictly enforced)
- scratch not for use as a "Dropbox"
- Out of date designs will be removed (no archiving)