9/21/17

A -

I setup folders and added some initial files that are taken from previous projects. They will need updating for this project.

First thing that needs to happen is the creation of a sample mcnp file using this project geometry. Can you do this Fri 9/22?

Second thing is we need to discuss library creation. Do we make compounds or elements, and which ones?

I will make the deck builder, deck runner, tally reader codes first. Hopefully we can run stuff over the weekend and have data for monday.

Can you find some comparison data? Just something so that we can confirm that stuff’s working well enough. There is a folder in “4 Tally Reader” for this.

Next we will need to play around with noise models.

LLS should be easy to do in MATLAB, Lasso can come later.

9/24/17

A-

I created the Deck Builder code for three decks: crude, h2o, and sio2

I created the Deck Runner code for the same three.

I started the runs around midnight

Tons of errors fatal errors. Going to solve them monday.

9/26/2017

A -

The KSU files are unwieldy. We are going to start with a super simplified case to test the fitting algorithms. Advanced MCNP will come later.

CEARDRF is being explored for the advanced case. Though this will come later.

Initial runs are started today.

10/3/2017

A –

The initial runs produced garbage. Likely due to gamma attenuation with no borehole.

Boreholes were added. Codes changed: Deck\_builder.py

Cluster is down due to power outage. Adan is getting it back online. New runs will start once operational.

Work has begun on the fitting models code.

Noise model code is started though no work has been done.

A book on LASSO has been added for reference.