

# Simulation task list

## Spectrometer

- First Lead collar near target slit scattering study
- implement design of the drift exit window and then update the background and signal
- Tungsten shielding around coils power deposit estimates
- coil shielding design
- include enclosure geometries, test rescatter bkgounds
- Evaluate collimator 1,2, 5,6 material CW80-CW95

## Radiation/Activation

- FLUKA geometry updates and activation studies (UMass new student Jhih-Ying Su)
- finish site-boundary scaling study from 6 GeV experiments
- shielding optimization? Update site boundary with new geometry? (G4, FLUKA?)

## Shielding / power

- GEM readout radiation estimates
- Power supply bunker estimates (Q:why there is stainless steel layer in front of the silicon)
- Ring 7 rates / dose (additional material, optimize shielding)
- collar 2 overlap - is this done, or further overlap?
- Ionizing dose in US and DS enclosures (complete documentation?)

## Simulation administration

- Set of steps for making final changes to geometry to be pulled into develop. (Juliette's suggestion)
  - Checkout develop branch
  - Merge changes
  - Check for issues
- Flagging overlaps and checking for inconsistencies in the development branch

## Ferrous

- rebar
- bellows / recheck with asymmetric
- tie rods / recheck with asymmetric
- downstream supports
- collimator material, Al window
- detector rotator motor

## Detectors

- complete light guide design
- ?