Simulation of July 2015 Collimator Scans

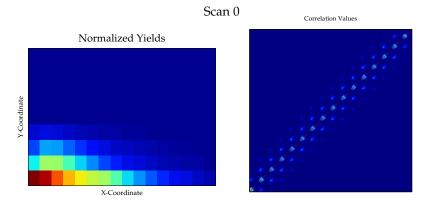
August 8, 2016

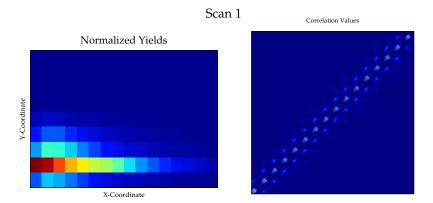
Summary of 2014 slides

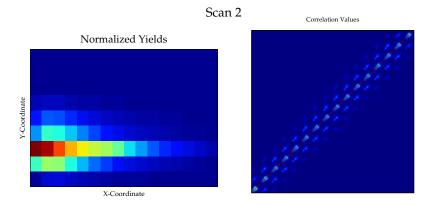
The simulation is weighted and parallel (at UTK).

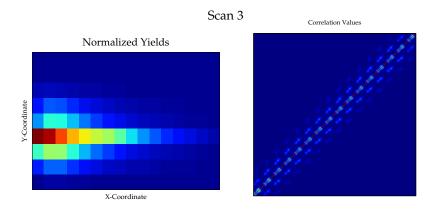
- 1. Prepare for simulation:
 - 1.1 Process data from ENDF and PSTAR.
 - 1.2 Process beam scans and monitor signals.
- 2. Generate \vec{x} and \vec{v} .
- 3. Collimate.
- 4. Pass into wire chamber and calculate reaction location.
- 5. Calculate emission angles, propagate, and track particle paths.
- Accumulate energies according to deposition curves, and sum all quantities such as Ekt and Okt.
- 7. End simulation:
 - 7.1 Output some histograms, total weight, yields, and dilution factor.
 - 7.2 Calculate geometry factors, weights, and correlations.

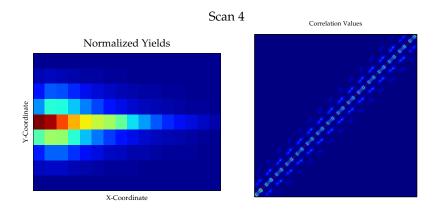
These collimation simulations have 10^7 events each.

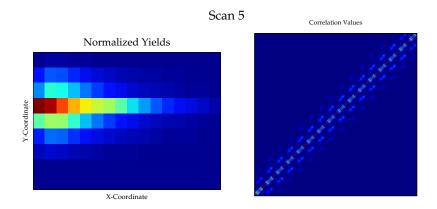


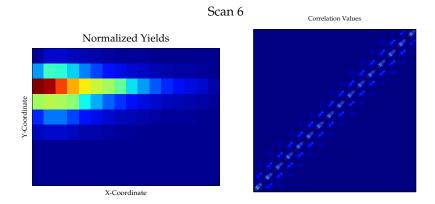


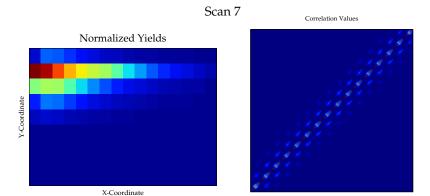












Scan 8 Correlation Values Normalized Yields Y-Coordinate

X-Coordinate