## Major Steps of MC DSAM Simulation

2. Randomly choose particle track

4. Using Eqn. 4.11, calculate and record the Doppler shifted energy observed by a

Detector

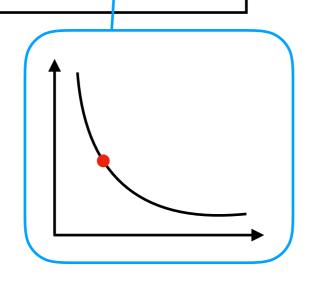
θ

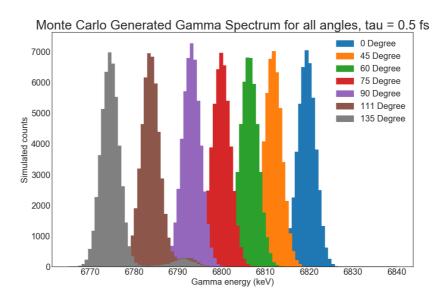
1. Simulate particle tracks in SRIM

5. Repeat simulation for all combinations of lifetime, target material and detection angle

detector at angle θ

3. Randomly generate a decay time and simulate nuclear decay at that instant





6. From this information, calculate all simulated Doppler shifts and corresponding F(τ) to create relationship for determining measured lifetimes