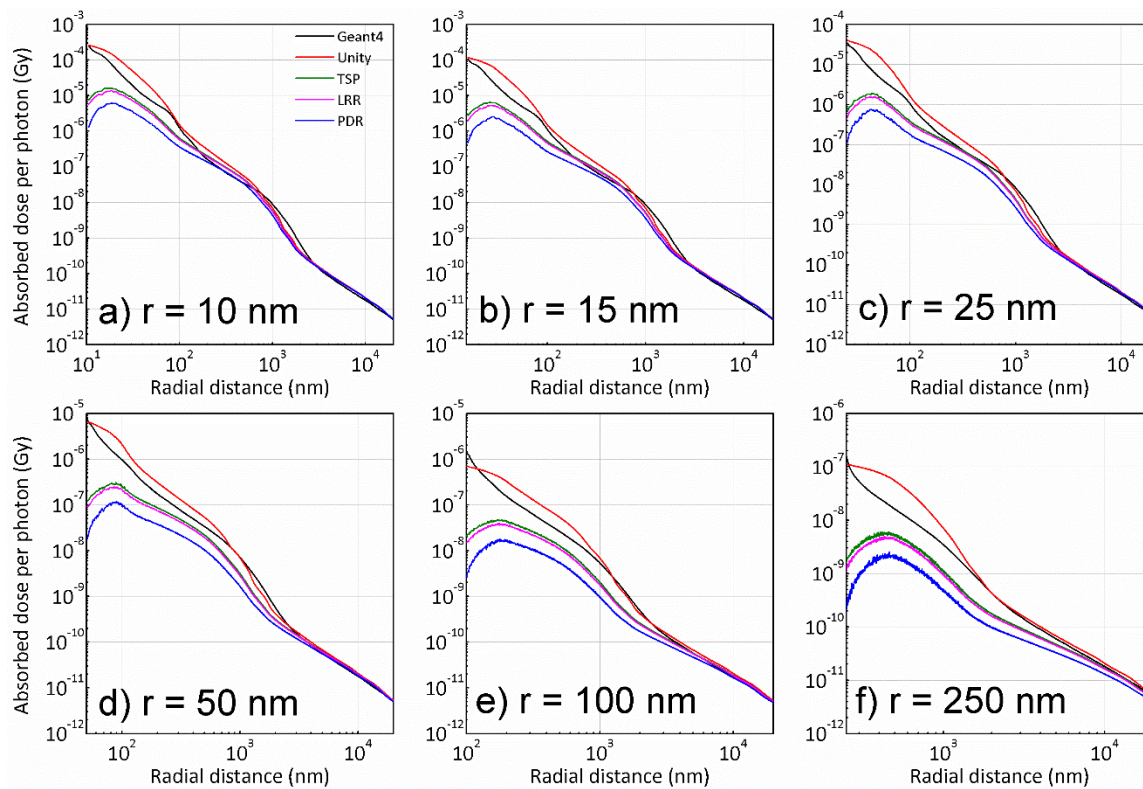


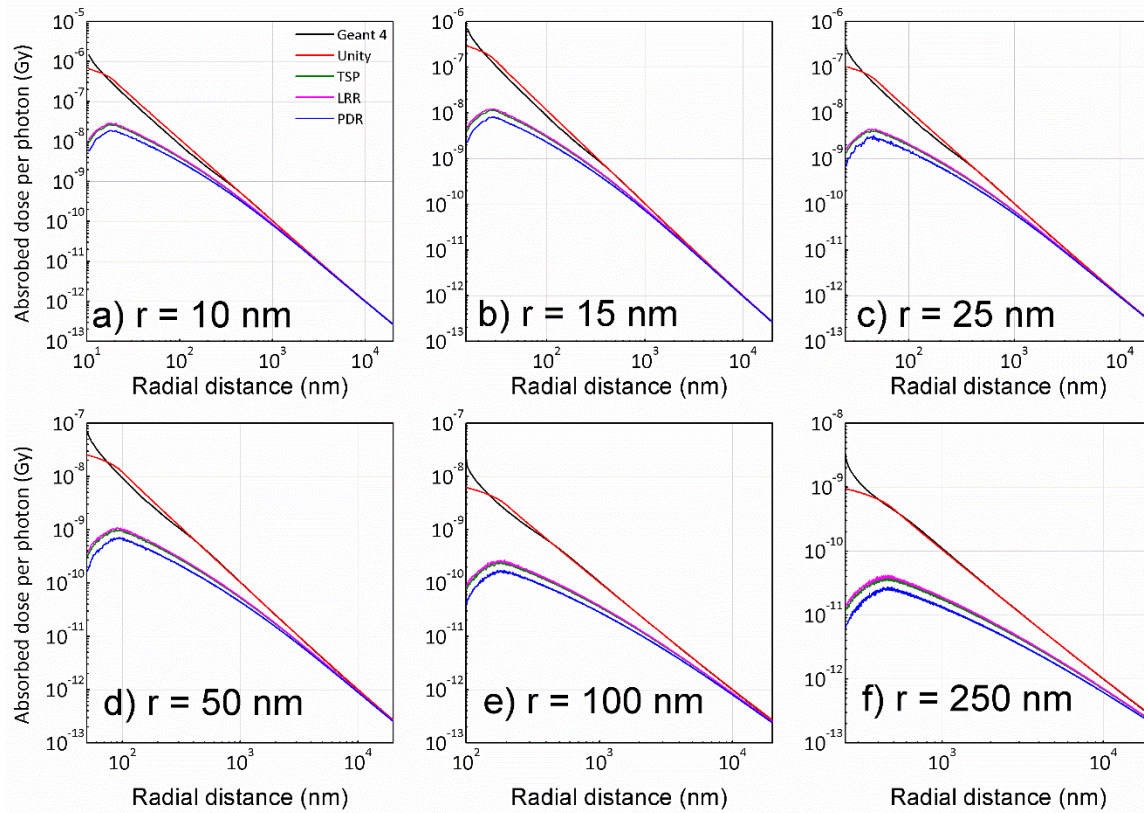
Supplementary Information

**Evaluation of dose point kernel rescaling methods for nanoscale dose estimation around gold nanoparticles using Geant4 Monte Carlo simulations**

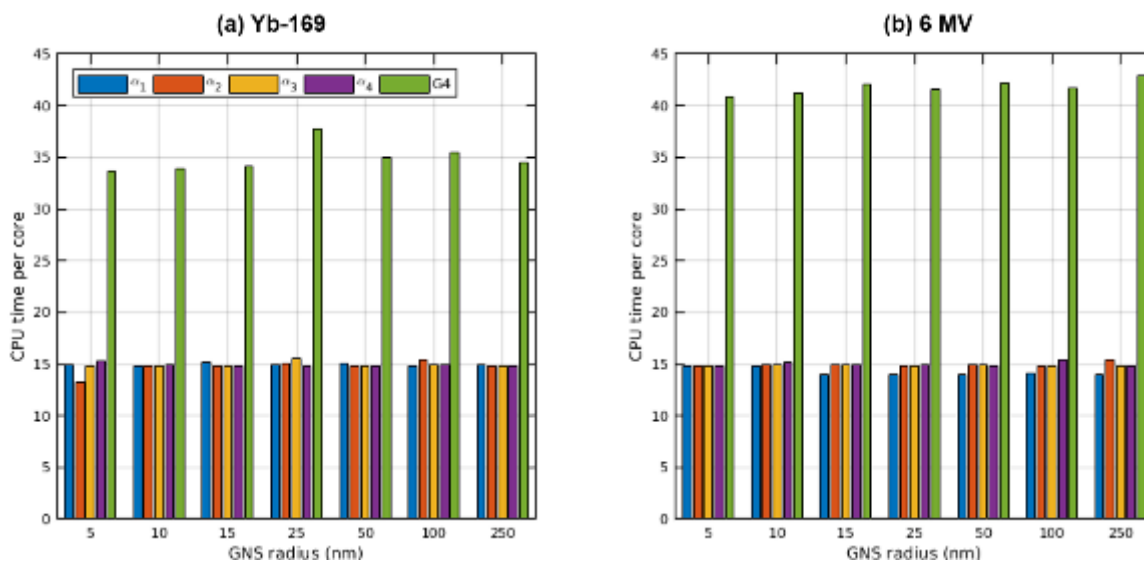
*Sandun Jayarathna, Nivedh Manohar, Md Foiez Ahmed, Sunil Krishnan, Sang Hyun Cho*



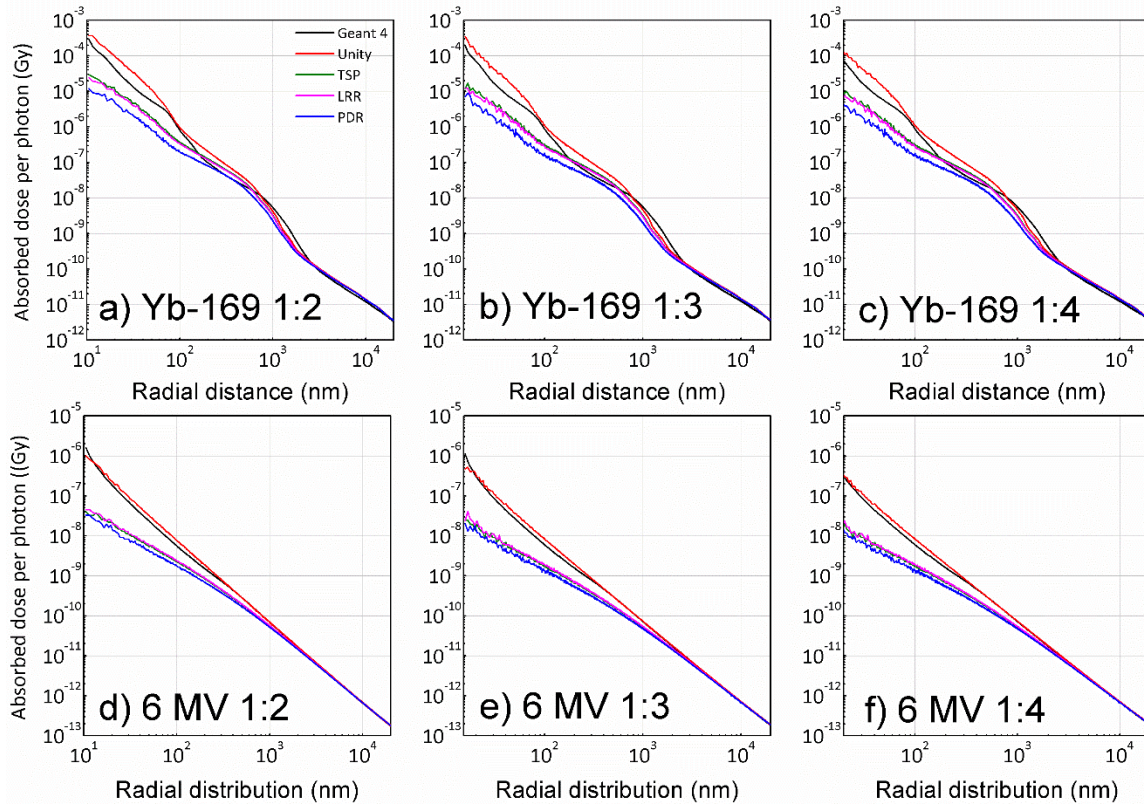
Supplementary Figure S1. Comparison of the absorbed dose distribution around GNSs as assessed by MC and DPK/rescaling methods for Yb-169 irradiation for the rest of the geometries.



Supplementary Figure S2. Comparison of the absorbed dose distribution around GNSs as assessed by MC and DPK/rescaling methods for 6 MV irradiation for the rest of the geometries.



Supplementary Figure S3. Processing times for GNS geometries for different DPK/rescaling methods and G4 simulations in (a) Yb-169 irradiation and (b) 6-MV irradiation.



Supplementary Figure S4. Comparison of the absorbed dose distribution around the planar boundaries of GNRs by MC and DPK/rescaling methods for Yb-169 irradiation (a,b,c) and 6-MV irradiation (d,e,f) for the rest of the aspect ratios.