

Monte Carlo simulations in radiation physics

- Sampling particle trajectories according to given interaction probabilities
- Particle interactions have a stochastic nature
- The more particles are simulated the more accurate are the results
... as long the implemented physics is correct!

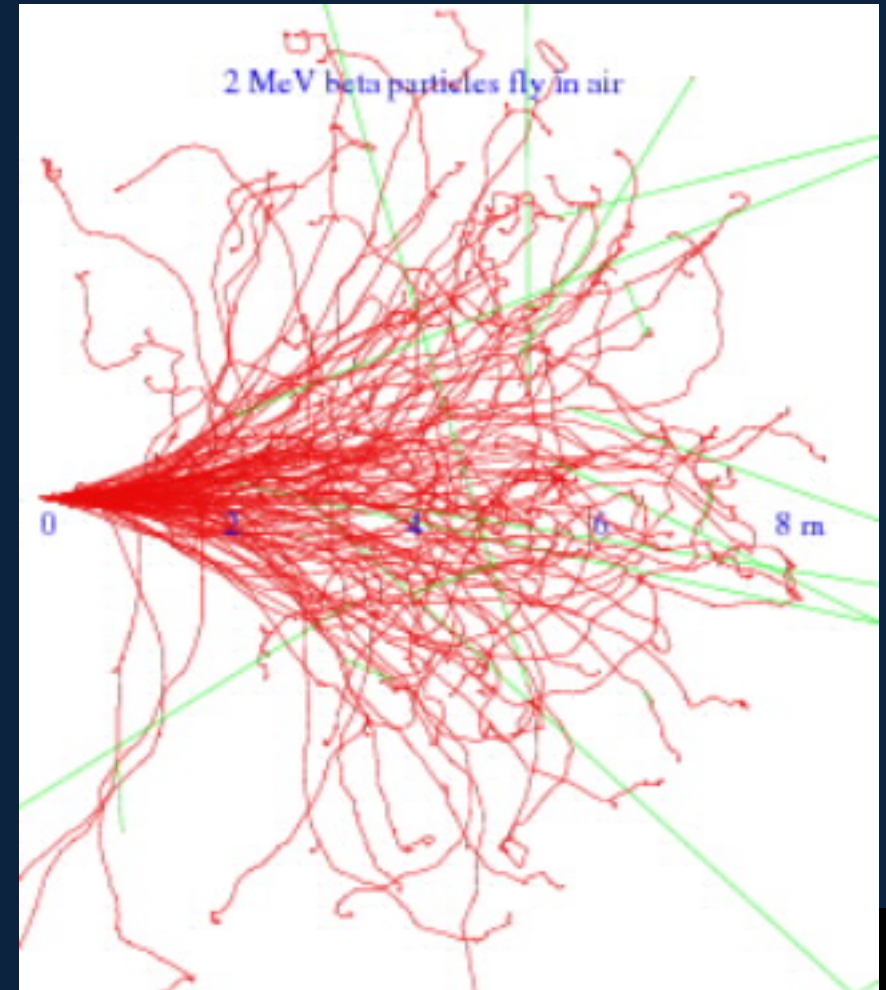
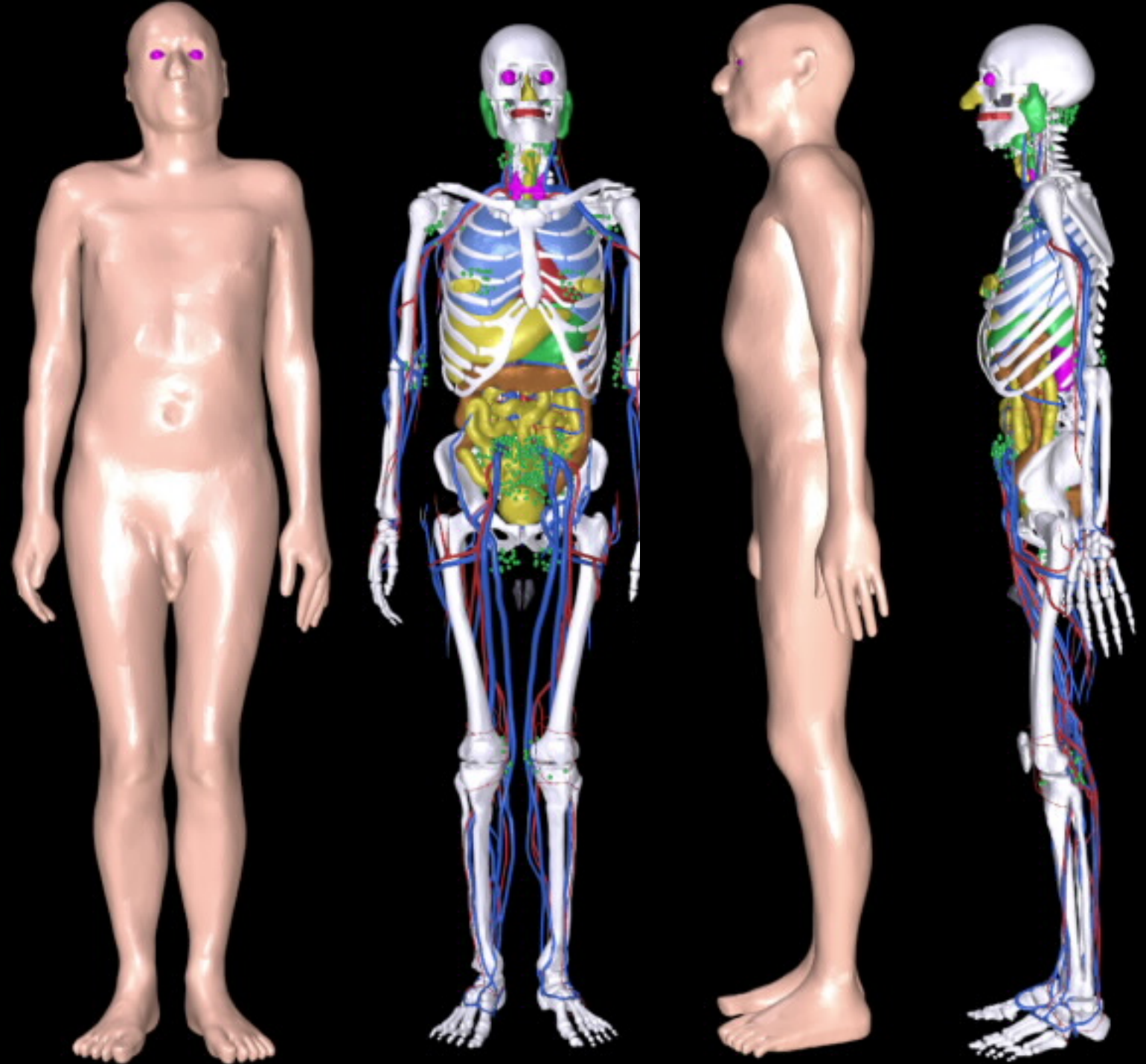
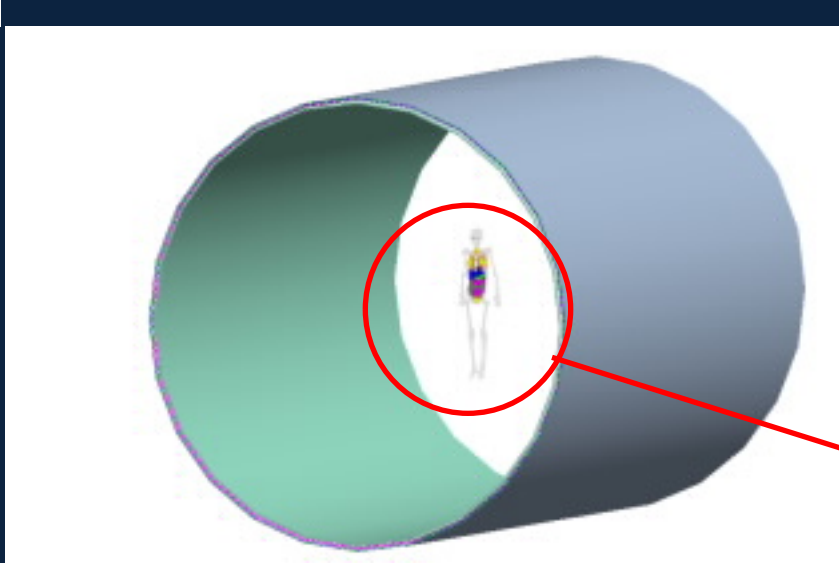


Figure courtesy of:
<http://physino.xyz/learning/2016/08/22/Geant4-simulation-helps-in-experiment-design/>



ICRP Publication 145 on
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