Radioactive Decay & Libraries

- Use case for development: induced activation in space
 - Complex irradiation time profiles
 - Specific times for observations
- User can enter time profile functions for source and biased observations:
 - /grdm/sourceTimeProfile <filename1>
 - /grdm/decayBiasProfile <filename2>
- All particles MC simulations are started at t=o, but results are convolved over source time profile
- References:
 - Bateman, Royal Soc Proceedings, 1910
 - P R Truscott, PhD Thesis, 1996
 - Physics reference manual
 - Pete Truscott, "Treatment of Radioactive Decay in Geant4", DERA/CIS/CIS2/7/36/4/10, 2010
 - Extended examples "radioactivedecay"