

# Smooth and Rich

## G4SmoothTrajectory and G4RichTrajectory

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# Smooth

- Not smooth enough
  - Needs more “auxiliary” points from field integrator
  - Or re-compute step
  - Requires expertise from transportation
- Invoke by augmented user command?
  - `/tracking/storeTrajectory smooth`
  - Avoid user tracking action class

# Rich

- Includes smooth
- Extra information via G4AttValues
  - Volume and next volume
  - Process that created trajectory
  - Total step energy deposit
  - Process that limits step
  - Pre/PostStepPointGlobalTime
  - ...
- Invoke by augmented user command?
  - `/tracking/storeTrajectory rich`