

examples/extended/runAndEvent/RE07

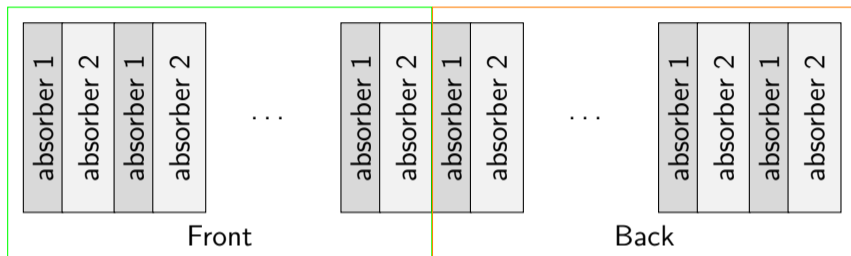
Demonstration of Specialized Tracking Managers

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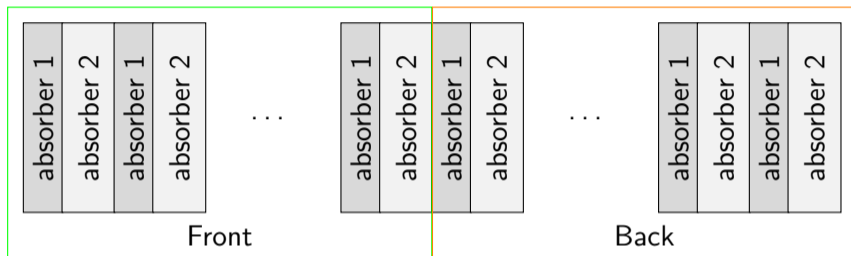


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- ▶ Purpose: demonstrate specialized tracking managers
 - ▶ Introduced in GEANT4 11.0 last December 2021

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- ▶ Traditional: physics list registers G4VProcesses for particles
- ▶ New possibility: set G4VTrackingManager for a (set of) particle(s)
- ▶ Tracking manager gets “handed over” each G4Track of that particle type
 - ▶ Has all freedoms during stepping, such as deferring tracks
 - ▶ Also possible to implement entirely different stepping loops per region

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3. specialized: an assortment of possible use cases:
 - ▶ use `G4EmStandardPhysics` as the basis (calling general `G4SteppingManager`)
 - ▶ defer particles with a kinetic energy > 100 MeV
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Please try out specialized tracking for your use cases, and let me know!

thanks