

^3He Atomic Beam Source Co-magnetometer for nEDM @ SNS

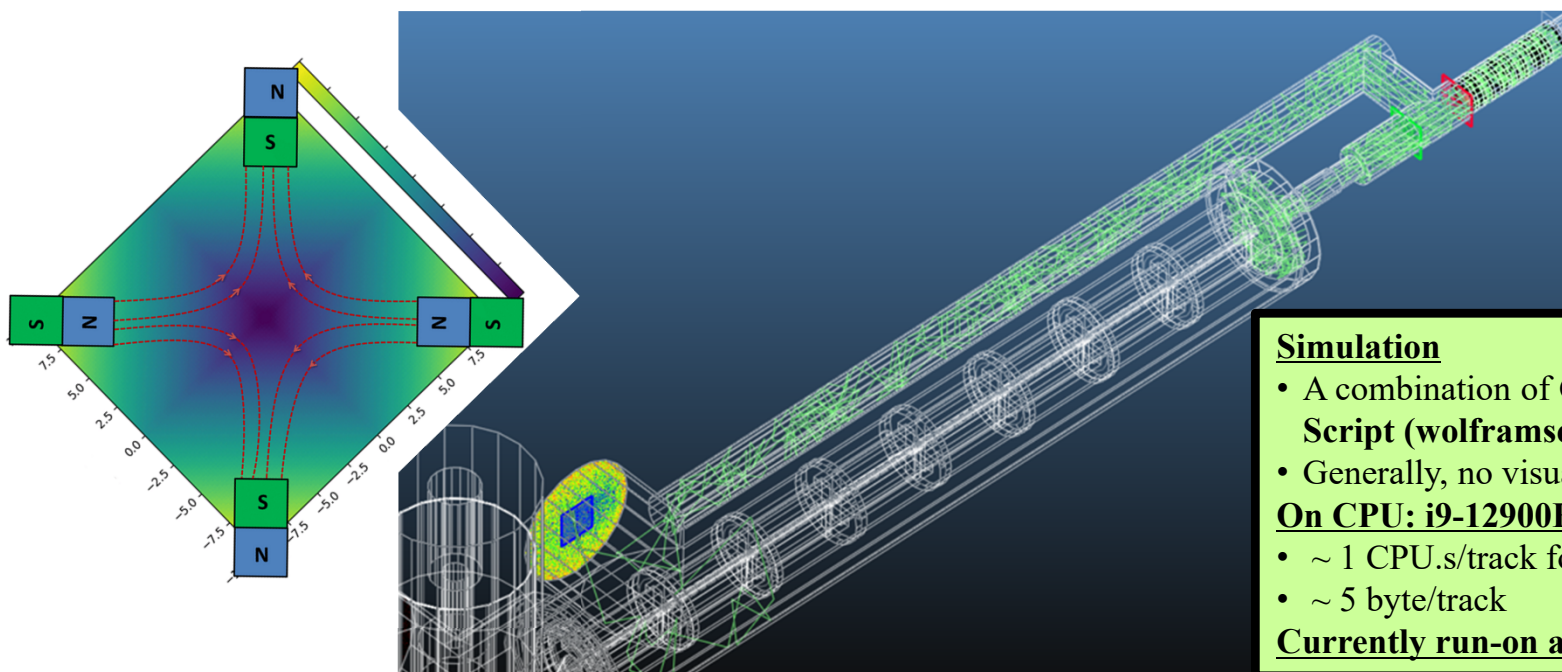
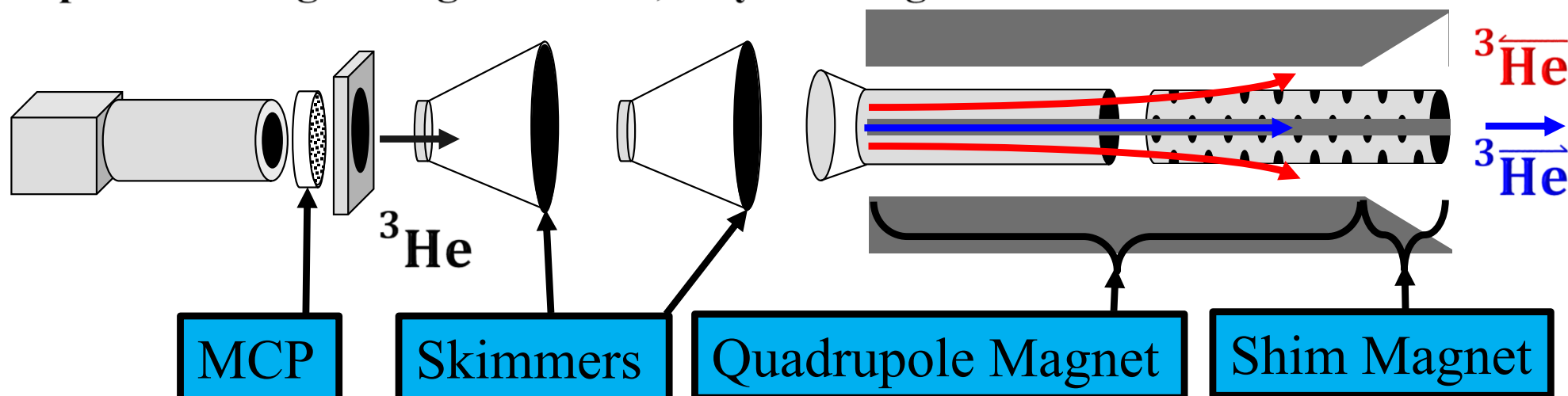
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Simulation – 1: Spin Tracking

Spin-Tracking + Magnetic field, Ray-Tracing Simulation



Simulation

- A combination of C++ (g++) + Wolfram-Script (wolframscript)
 - Generally, no visuals/graphics rendered
- On CPU: i9-12900H [best run on intel]**
- ~ 1 CPU.s/track for 100M tracks
 - ~ 5 byte/track
- Currently run-on a AMD-FX 8100 x4**