Jim Miller
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EDM SIMULATIONS

- PHASE SPACE OF INJECTED MUONS/DEUTERONS

SERGEI
JIM

- STUDY SYSTEMATIC ISSUES: INJECTION ANGLE, POSITION, MOMENTUM
- CODE WHICH TRACKS TRAJECTORIES, SPINS FOR SPECIFIED E, B
  - START WITH IDEALIZED E, B
  - ADD E, B PERTURBATIONS "SAUCER", "TWIST" IN B VERTICAL E COMPONENT
  - TEST FOR CW + CCW CANCELLATION

  SPIN: ANDREAS GERACH

- VERT E.
- SAUCER, TWIST
- CW, CCW
- DECOHERENCE
- REALISTIC E, B (16 SEGMENTS)
- DETECTION (POLARIMETER) T21 ...

- NEED:
  - REASONABLY WELL DEFINED GEOMETRY
  - REALISTIC E, B (SERGEI: OPERA)
  - FULL GEANT4 SIMULATION (VANYA)
    FULL GEOMETRY
    INJECTION, STORAGE, DETECTION
- CONFIRM W/ THEORY UNDERSTANDING
  YURI/SERGEI
- DEUTERON: POLARIMETER
  GERCO + ED