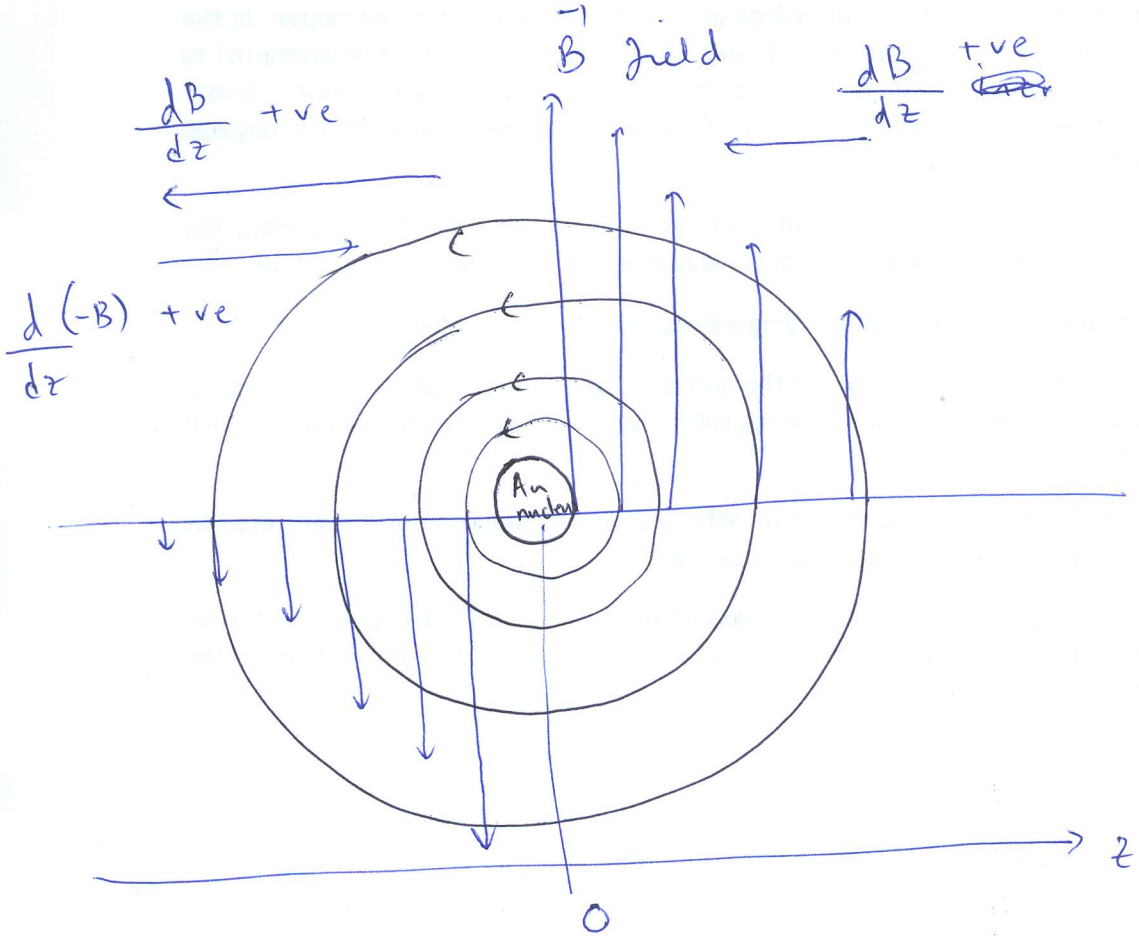
Mott scattering from an atom



- If an electron approaches the Au nucleus at $z > 0$, it sees a field gradient towards the left.

- In the region $z < 0$, the field direction is reversed. Hence an electron will still see a field gradient towards the left.

- Hence spins polarized along $+z$ ($-z$) will move towards the left ~~(left)~~ (right) always, irrespective of whether they approach the atom at $\pm z$.

Sabieh Anwar