"B-L" ferce in Standard Midel

(Possibly related to Neutrino Osc.)

Sun: Pt, N, et net "B-L" charge

1 1 1 1 | em. +3 "B-L"

QFT > [Model like normal Mass field.

Neutrino: Sun em. Is lots of these

V

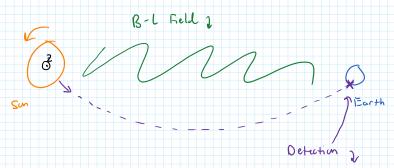
B-L

-1, so V feels the B-L field of son

and its towiectery will bend.

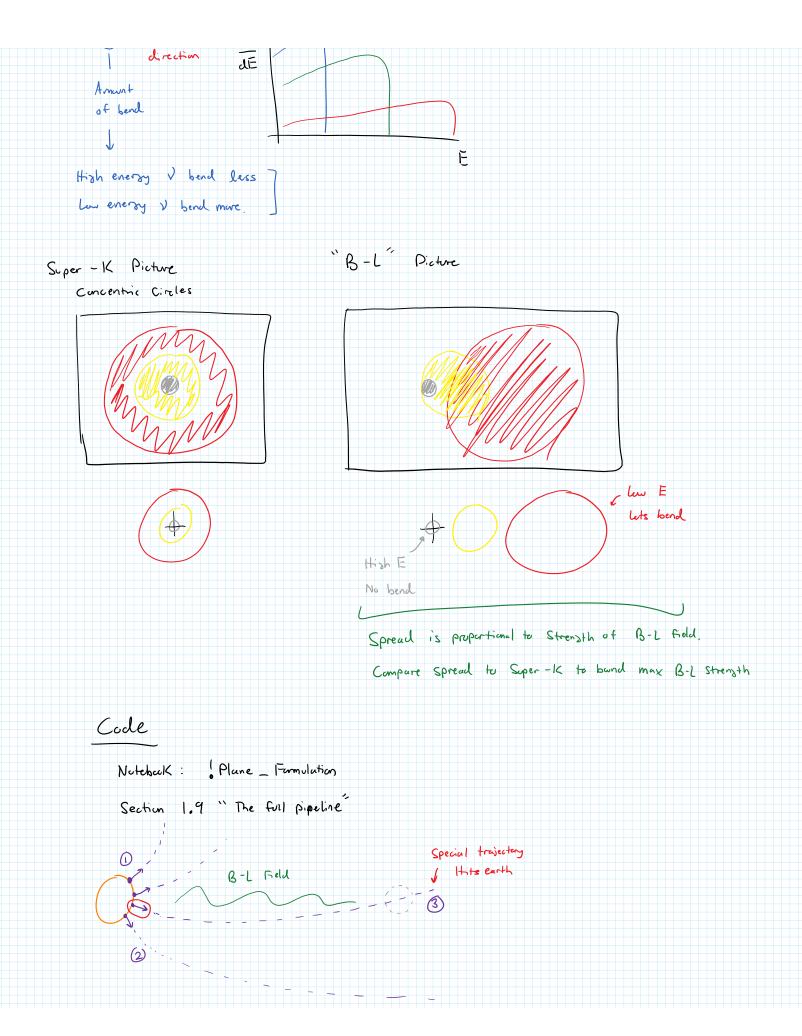
we care about how much it bends.

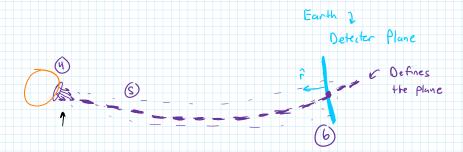
Top Down



Neutrino picture from Super-K

 $F = 6 \overrightarrow{V} \times \overrightarrow{B}$ $\overrightarrow{X} = \frac{8}{m} \overrightarrow{V} \times \overrightarrow{B}, \quad \forall \text{ are bas'cally massless } m \rightarrow E$ $\overrightarrow{X} = \frac{8}{m} \overrightarrow{V} \times \overrightarrow{B}, \quad \forall \text{ are bas'cally massless } m \rightarrow E$ $\overrightarrow{X} = \frac{9}{E} \overrightarrow{V} \times \overrightarrow{B}, \quad \forall \text{ are emits spectrum of newtonos}$ $\overrightarrow{A} = \frac{dv}{dz}$





(IC)

- 1) Malk a bunch of Initial Conditions on the sun
- 2) Evolve all transcriences (traj) & speed of light
- (3) Identify a tri that actually hits earth
- 4) Malk more IC near the too, from step 3.
- 5 Determine the detector plane A
- 6 Evolve all new trais and get hits an detector

Plane = 2 (12 - 17,)

not necessarily lau

106 Km

Given P. & P., malk a line from them where on that line is Tau away from the coiso.

f(r, r2)