

1.

Show, using angular momentum arguments (and no lepton number arguments) that neutrinos are essential for the fusion of hydrogen into deuterium.

2.

Estimate the thickness of lead needed to decrease the intensity of solar neutrinos to half.

3.

Estimate the number of solar neutrinos through SK every day.

4.

If you want to determine neutrino mass to 1 eV accuracy from π^+ decay, how well would you need to measure the energy of muon ?

5.

Why does sun give neutrinos while reactors give antineutrinos ?