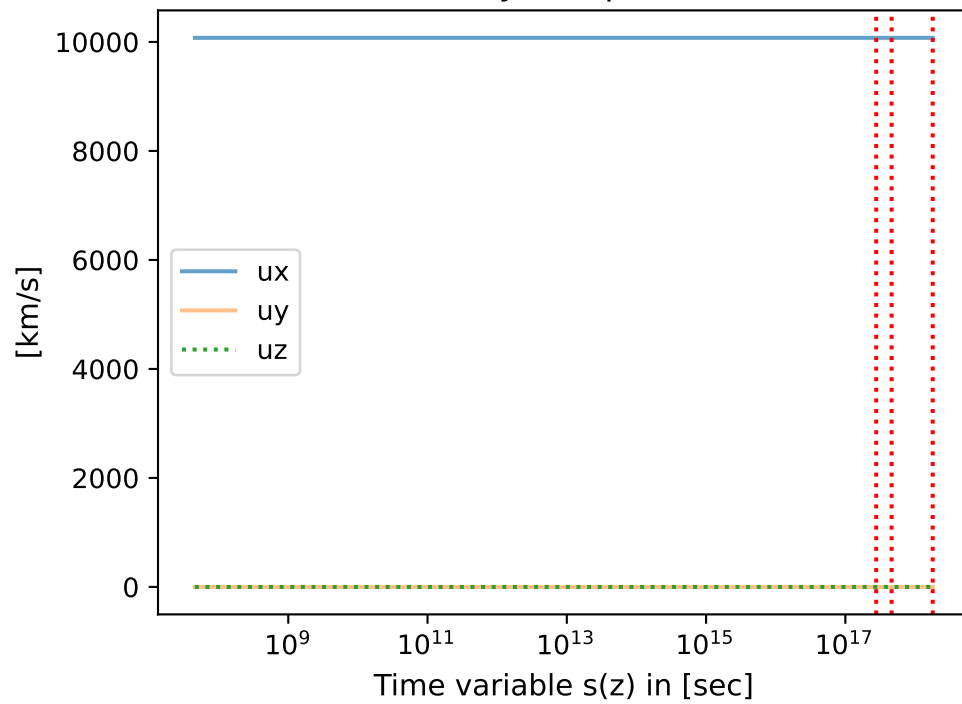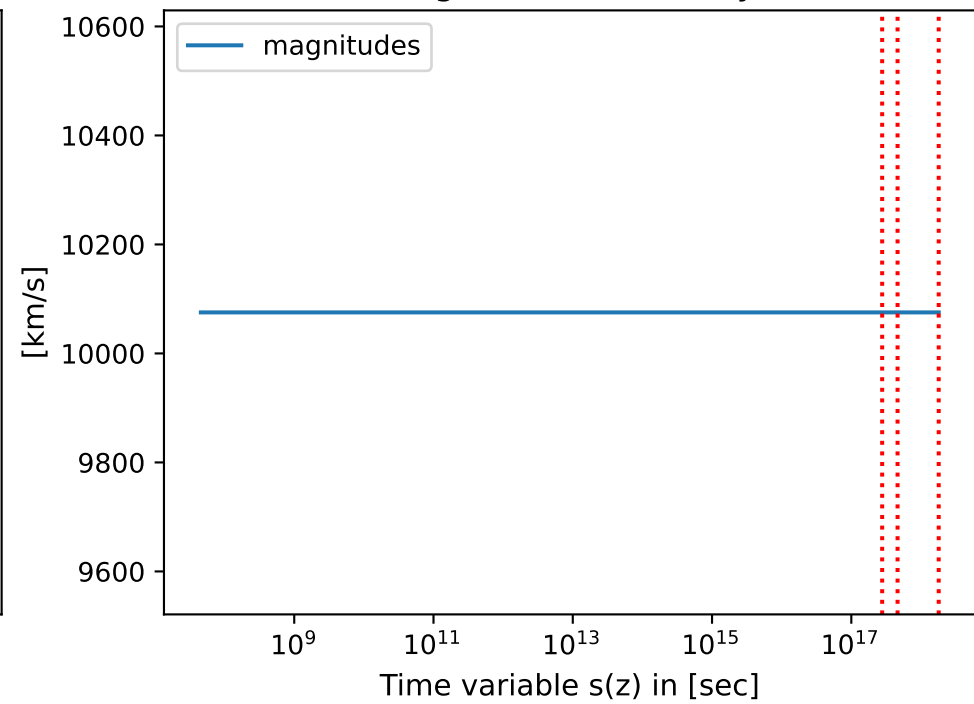1 neutrino pointing away_from_GC on x-axis, m=0.05 eV (backwards in time)
vertical red dashed lines are redshifts z=0.5, 1, 4