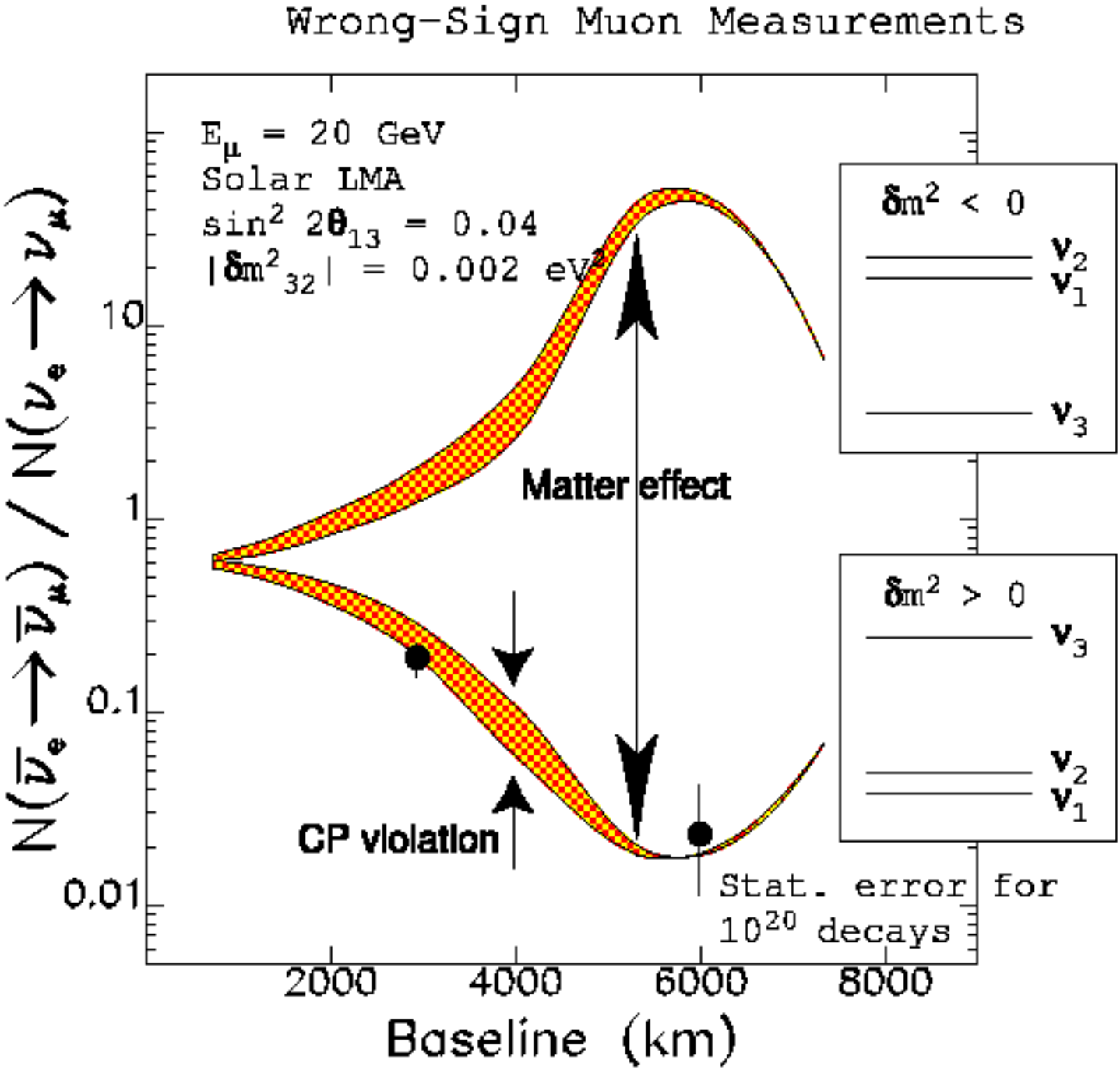
Wrong-Sign Muon Measurements
E_μ = 20 GeV
Solar LMA
$\sin^2 2\theta_{13}$ = 0.04
$|\delta m^2_{32}|$ = 0.002 eV^2
$N(\bar{\nu}_e \rightarrow \bar{\nu}_\mu) / N(\nu_e \rightarrow \nu_\mu)$
10
1
0.1
0.01
Matter effect
CP violation
Stat. error for
10^{20} decays
$\delta m^2 < 0$
ν_2
ν_1
ν_3
$\delta m^2 > 0$
ν_3
ν_2
ν_1
2000
4000
6000
8000
Baseline (km)