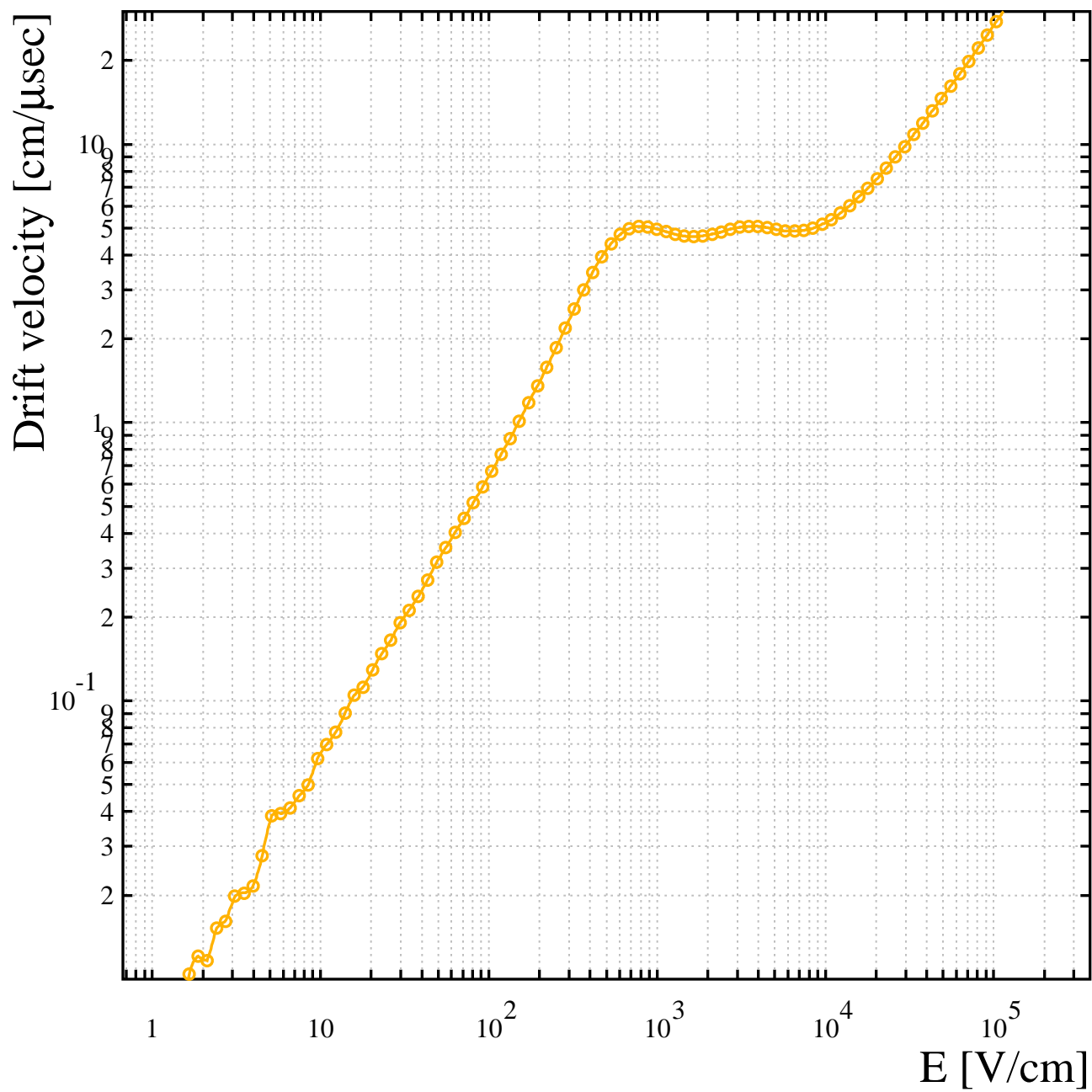


Drift velocity vs E

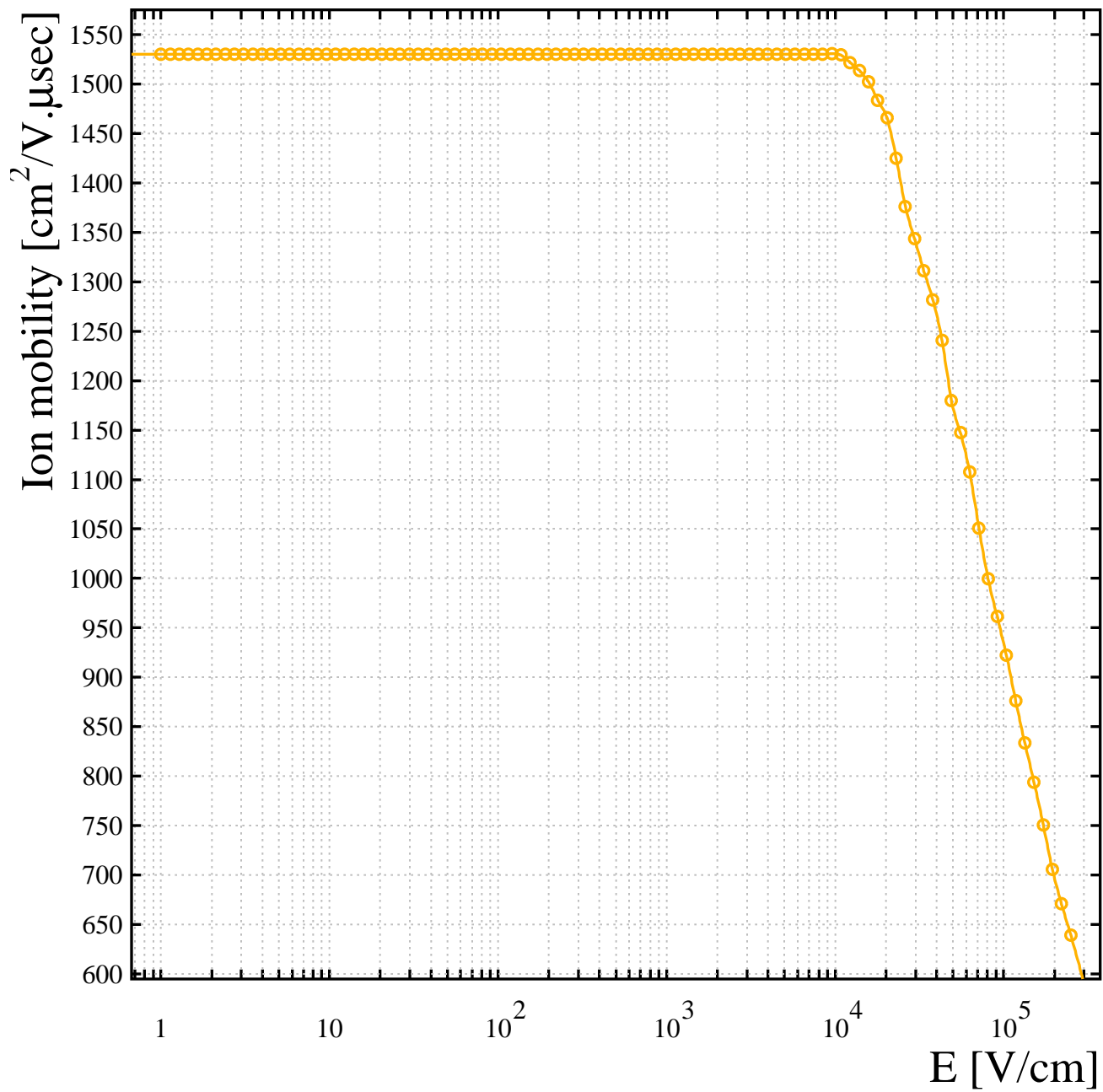
Gas: CO₂ 9.9818%, O₂ 0.0020004%, Ar 90.0162%, T=300 K, p=1 atm



Ion mobility vs E

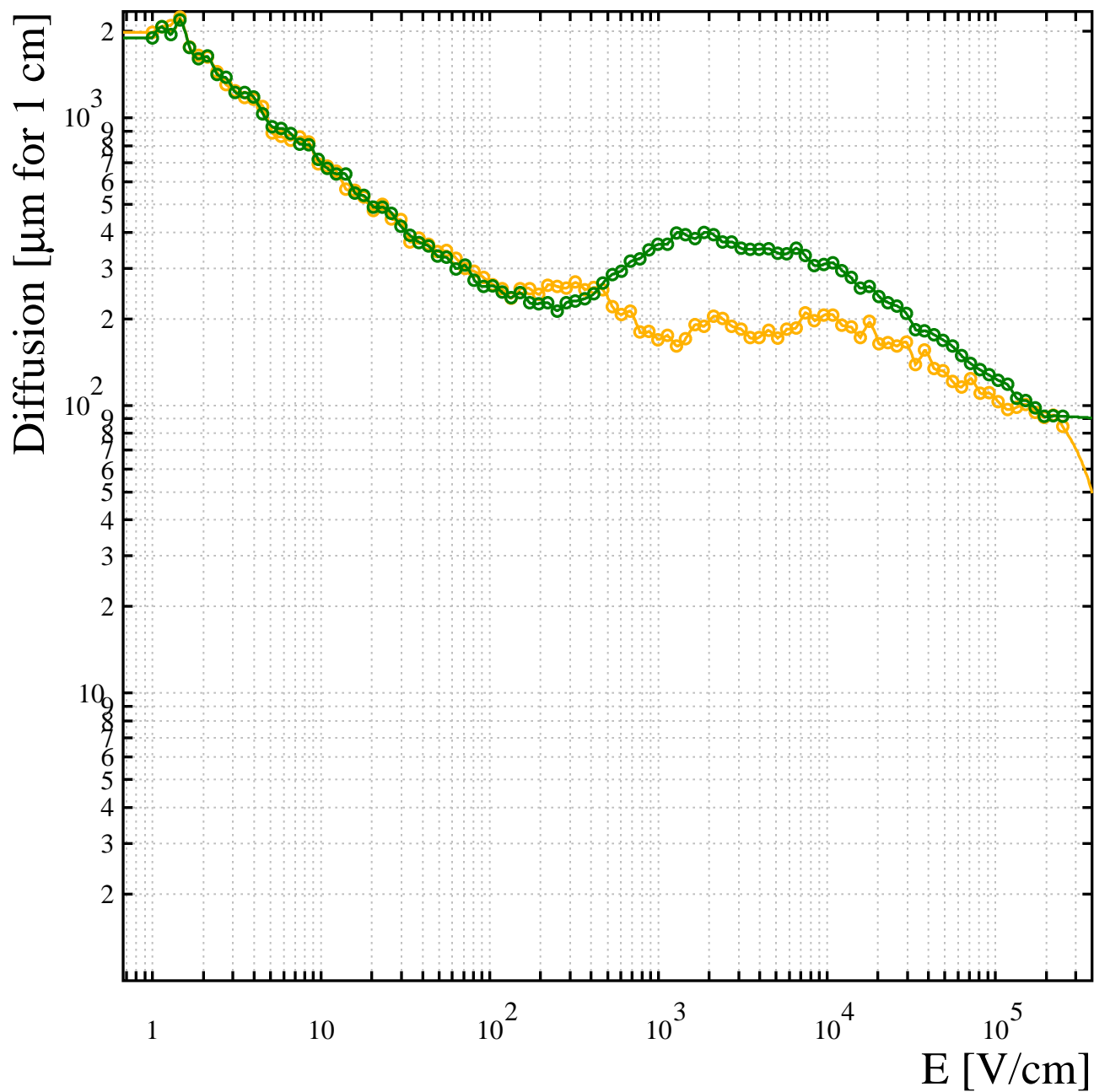
* 10⁻⁹

Gas: CO₂ 9.9818%, O₂ 0.0020004%, Ar 90.0162%, T=300 K, p=1 atm



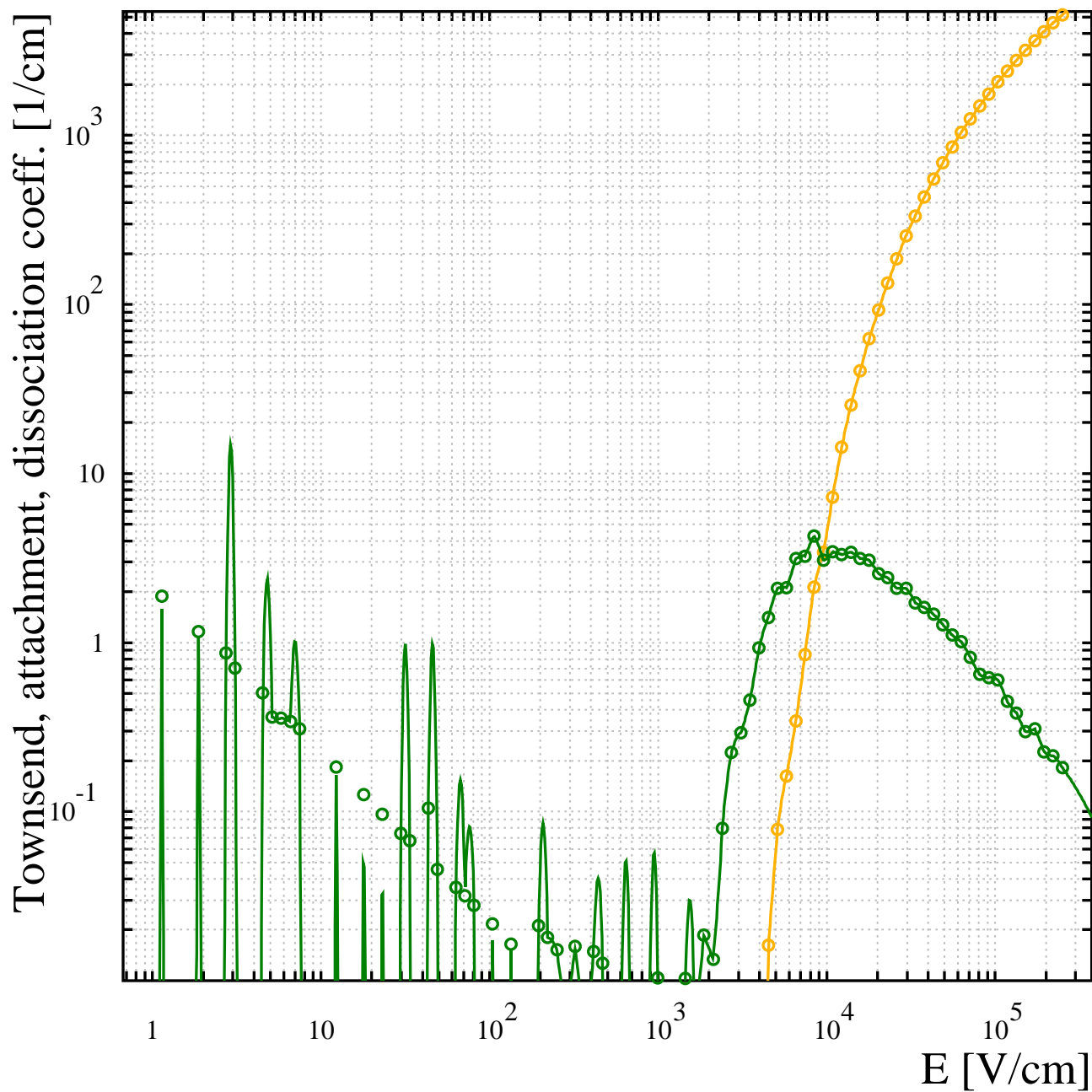
Diffusion coefficients vs E

Gas: CO₂ 9.9818%, O₂ 0.0020004%, Ar 90.0162%, T=300 K, p=1 atm



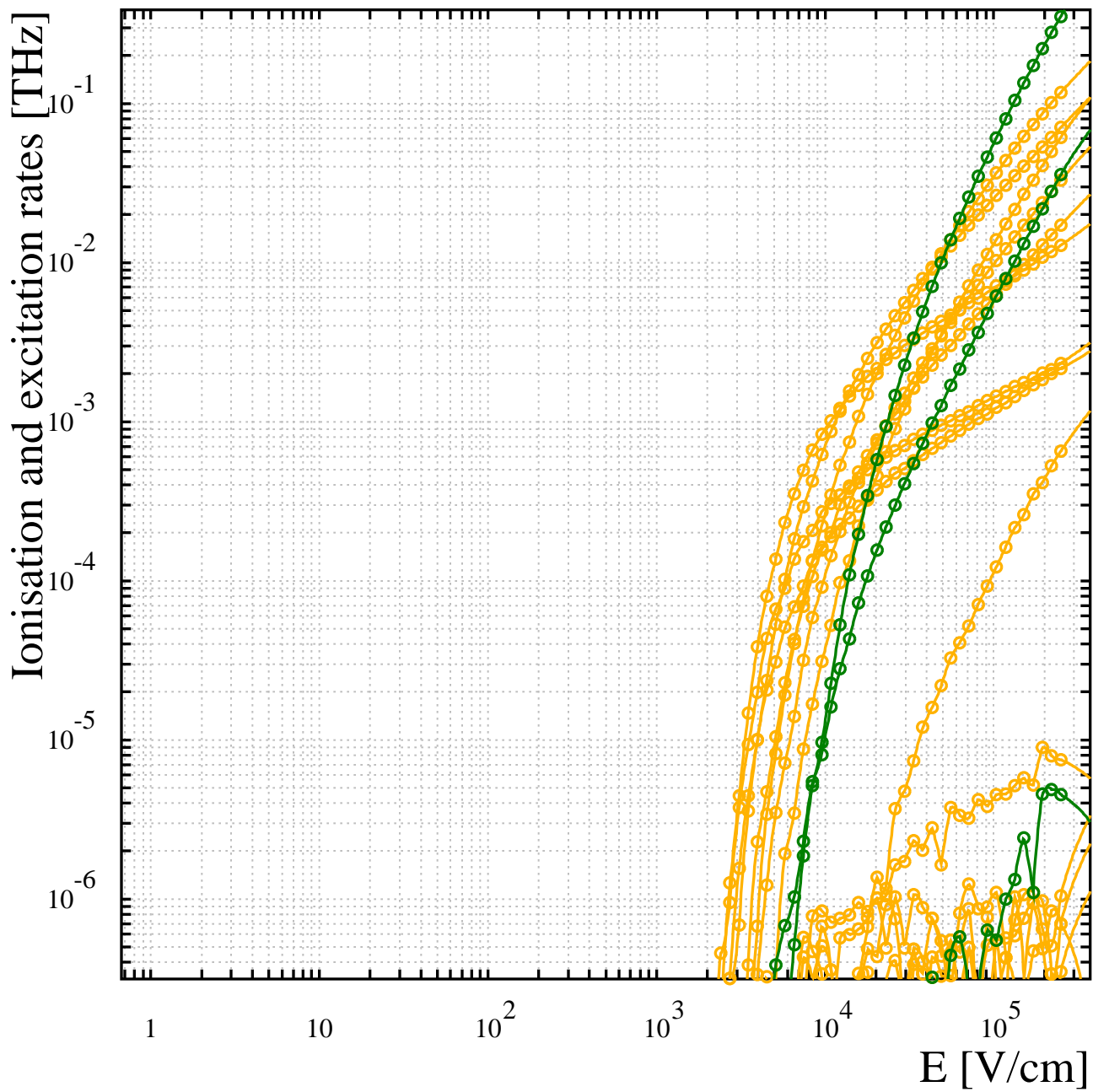
Townsend, attachment, dissociation coeff. vs E

Gas: CO₂ 9.9818%, O₂ 0.0020004%, Ar 90.0162%, T=300 K, p=1 atm

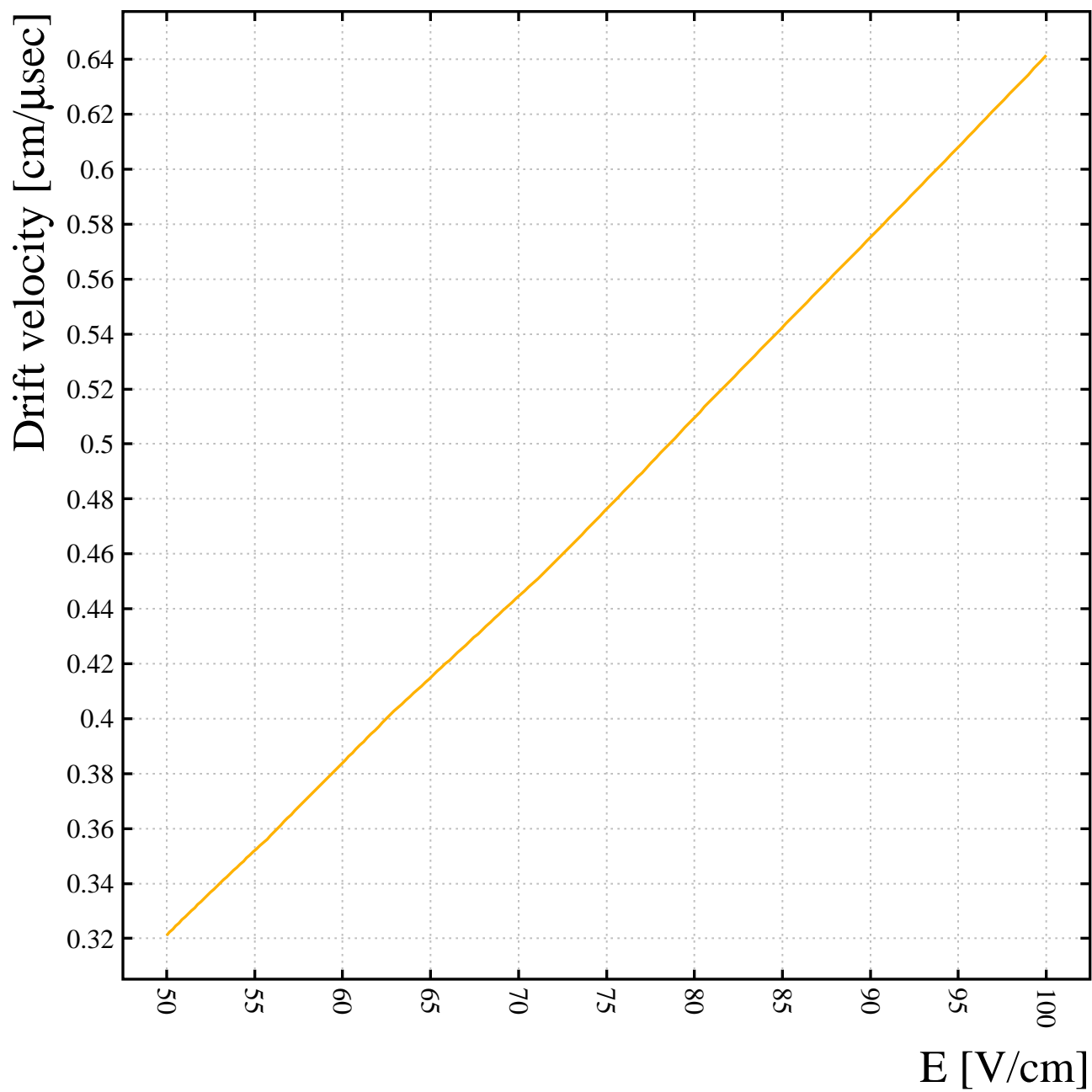


Ionisation and excitation rates

Gas: CO₂ 9.9818%, O₂ 0.0020004%, Ar 90.0162%, T=300 K, p=1 atm

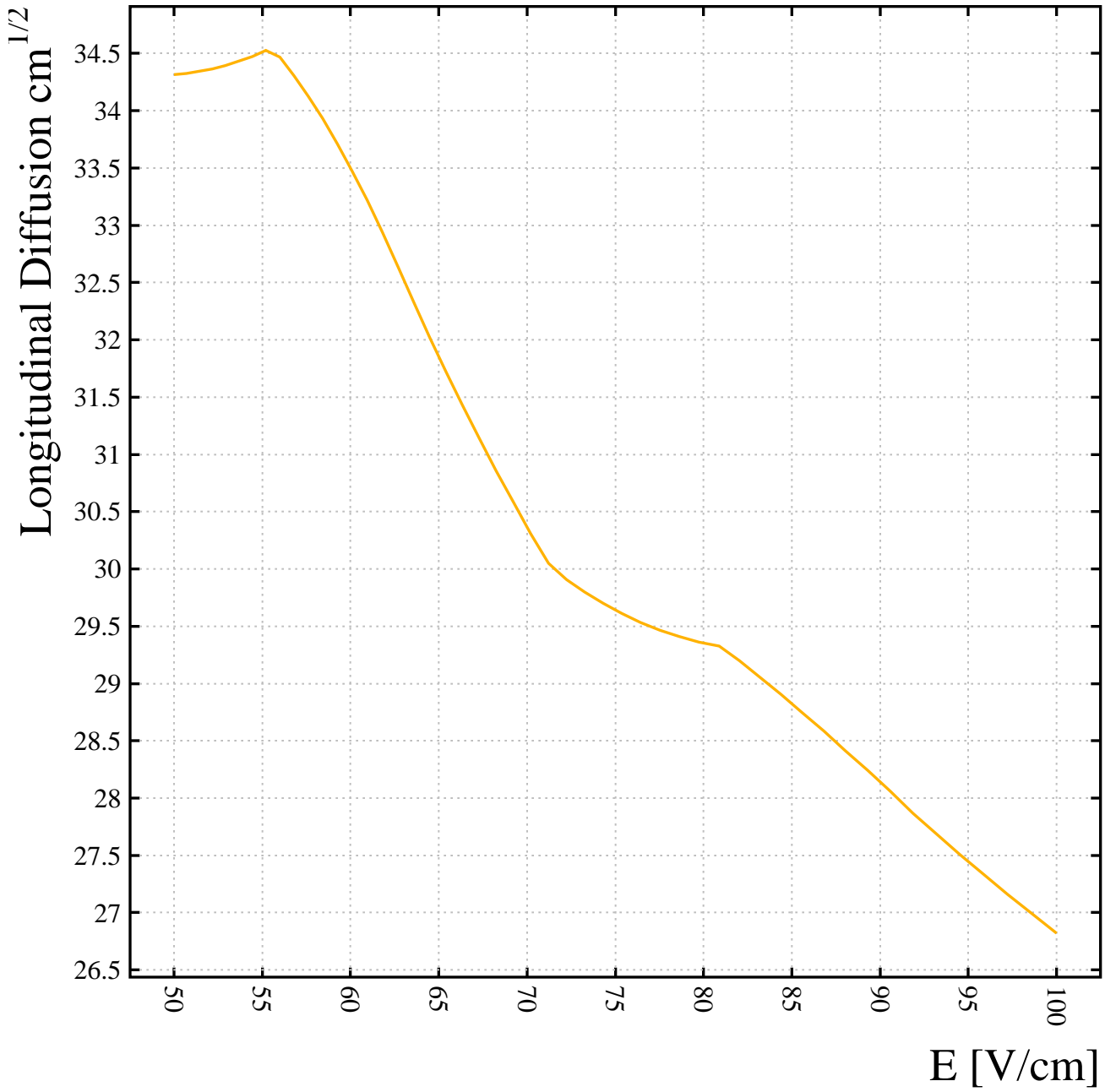


Magboltz calculations



Magboltz calculations

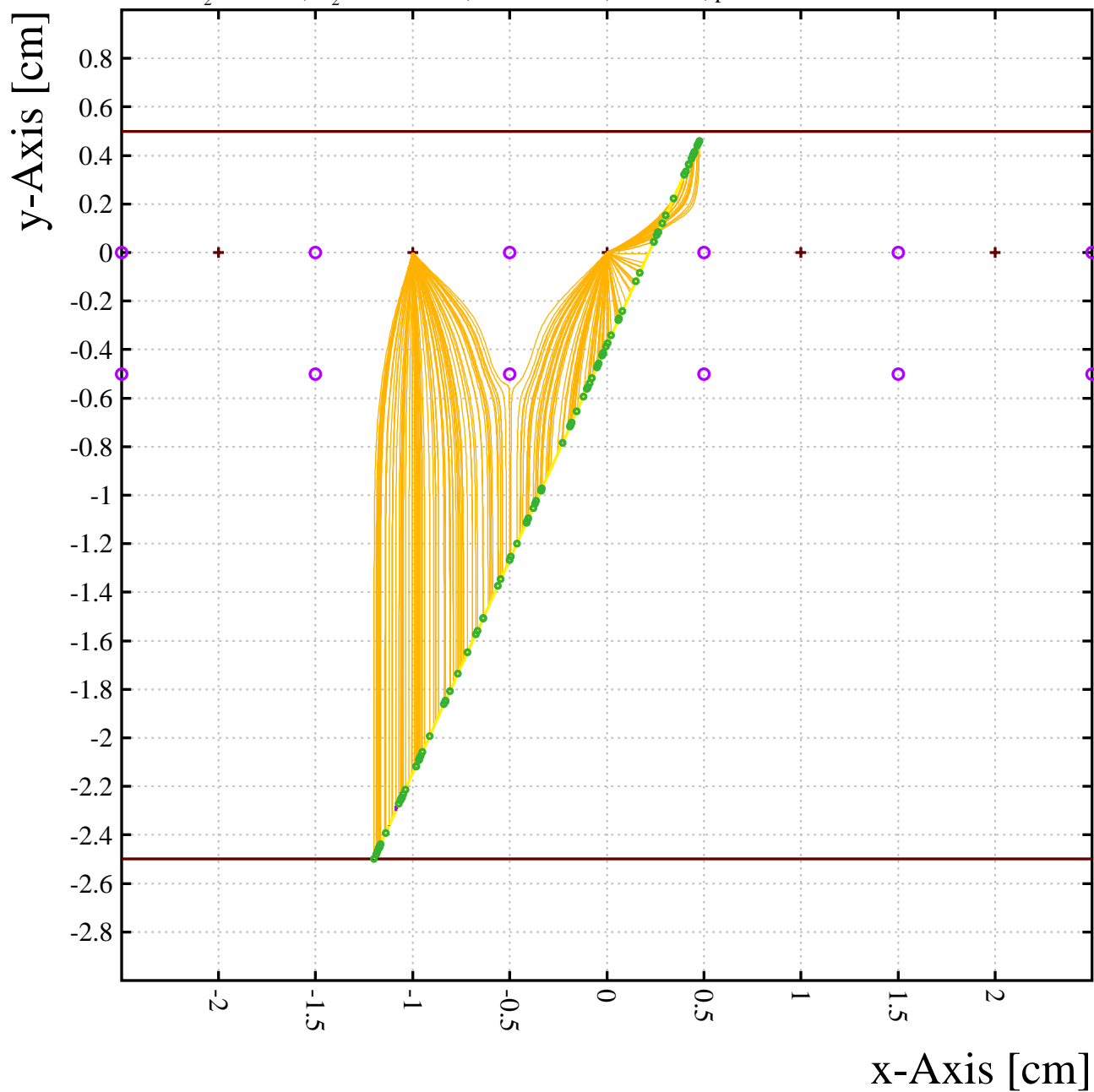
$\cdot 10^{-3}$



Electron drift lines from a track

Particle: π^- , $E_{kin}=3$ GeV

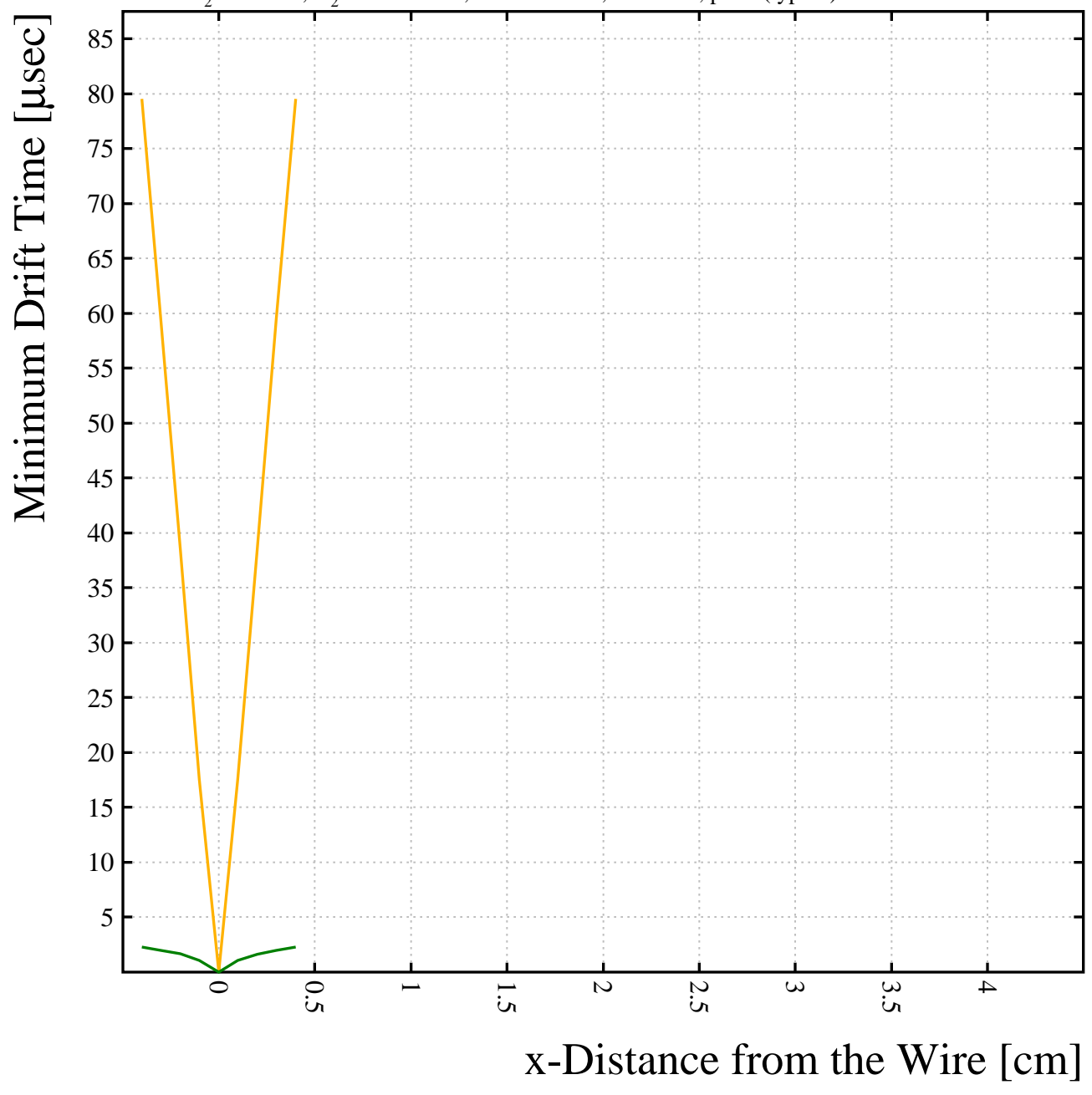
Gas: CO₂ 9.9818%, O₂ 0.0020004%, Ar 90.0162%, T=300 K, p=1 atm



x(t)-Correlation plot

*10⁻³

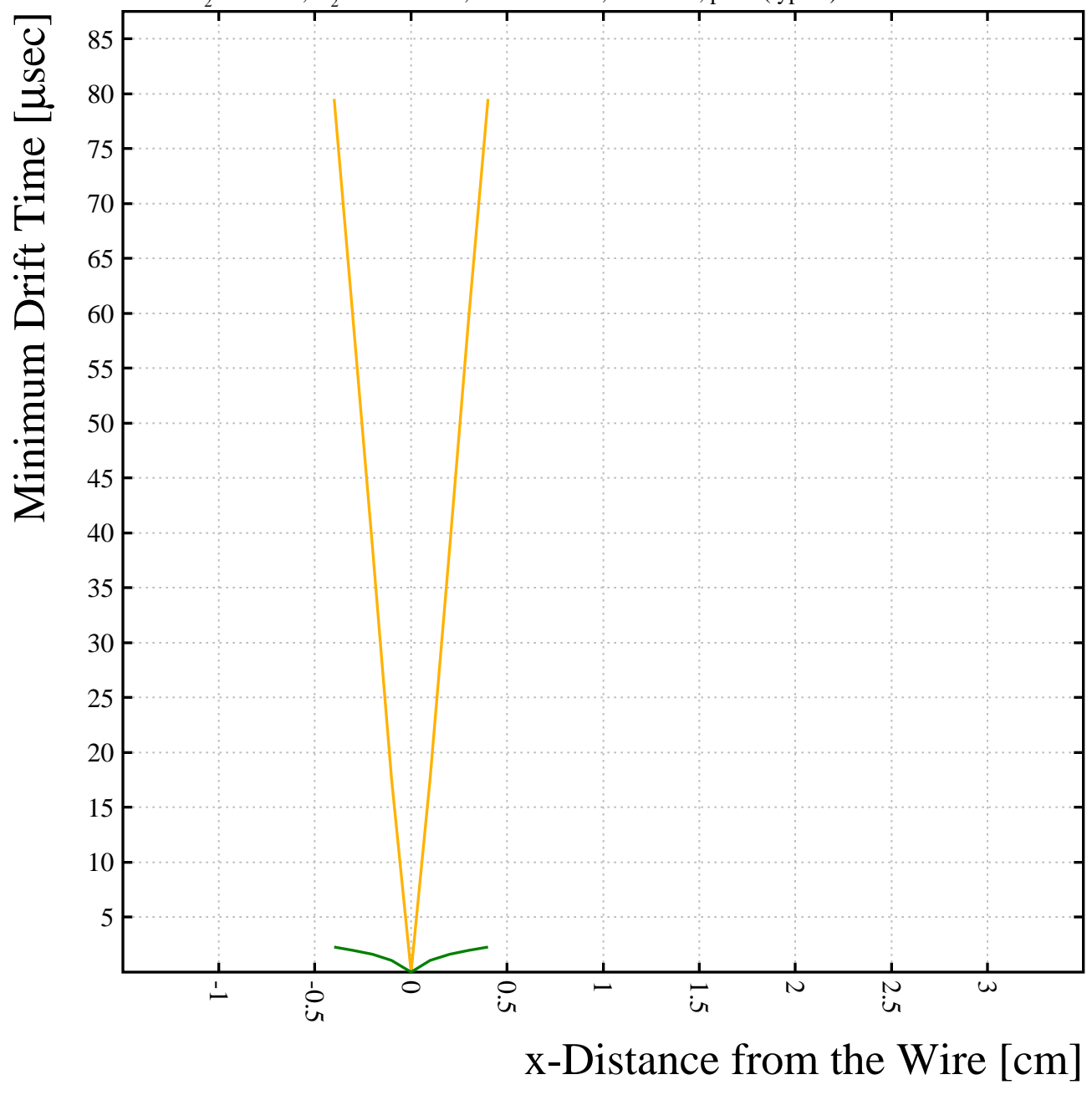
Gas: CO₂ 9.9818%, O₂ 0.0020004%, Ar 90.0162%, Wire 300 K, p=1 atm
Angle to y = 0.00 degrees



x(t)-Correlation plot

*10⁻³

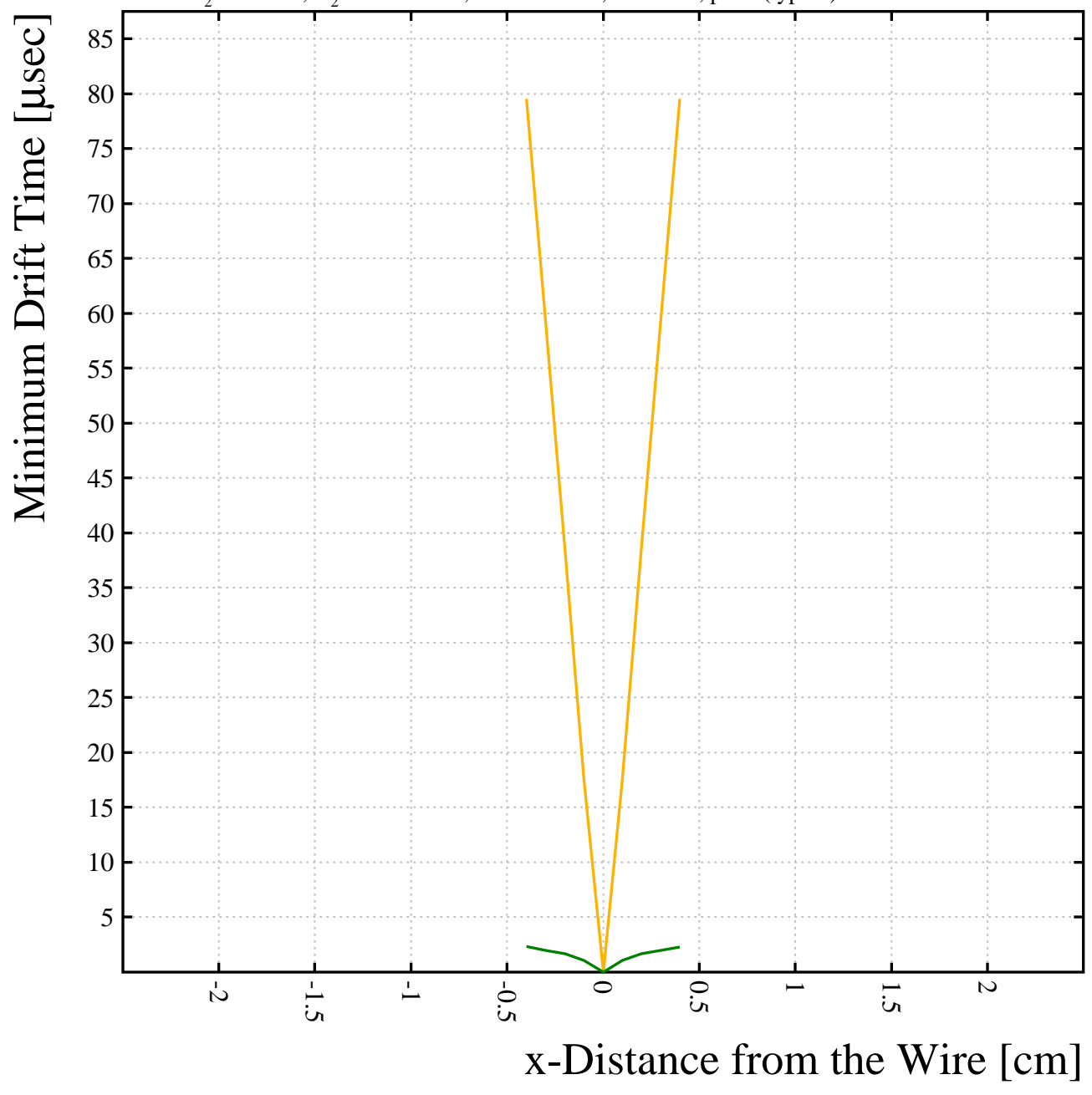
Gas: CO₂ 9.9818%, O₂ 0.0020004%, Ar 90.0162%, Wire 300 K, p=51 at (type S)
Angle to y = 0.00 degrees



x(t)-Correlation plot

*10⁻³

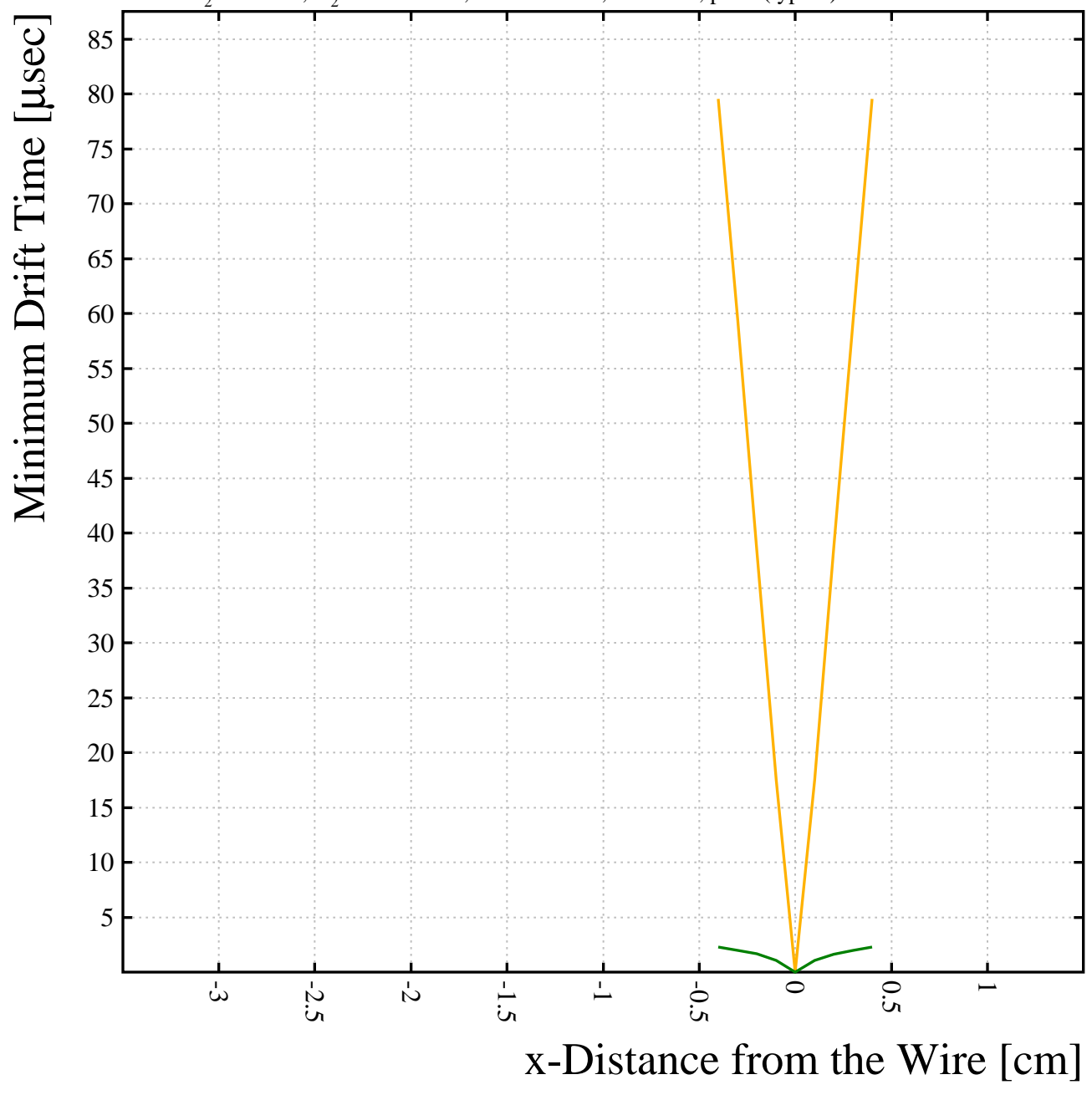
Angle to y = 0.00 degrees
Gas: CO₂ 9.9818%, O₂ 0.0020004%, Ar 90.0162%, Wire 300 K, p=1 atm (type S)



x(t)-Correlation plot

*10⁻³

Angle to y = 0.00 degrees
Gas: CO₂ 9.9818%, O₂ 0.0020004%, Ar 90.0162%, Wire 300 K, p=71 at (type S)



x(t)-Correlation plot

*10⁻³

Gas: CO₂ 9.9818%, O₂ 0.0020004%, Ar 90.0162%, Wire 300 K, p=81 at (type S)
Angle to y = 0.00 degrees

