Quasiparticle Steady-State Density = 1.481e-05/ τ_0 , r_{ph} = 6.618e-01, c = 4.608e-02, F = 9.993 poisoning, near trap recovery, near trap Quasiparticle Density (μ m⁻³) simulation 10³ 2.5 3 3.5 4.5 5.5 6.5 7.5 Normalized Injection Bias eV/\(\Delta\)