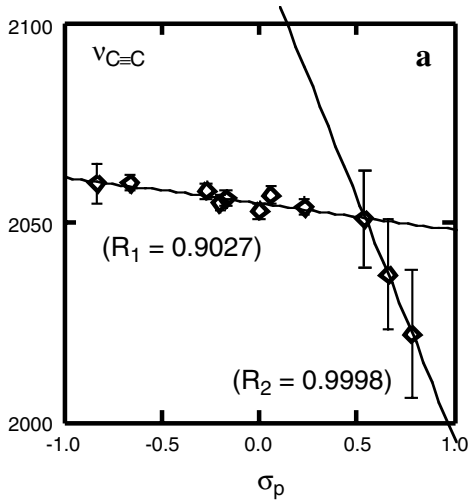
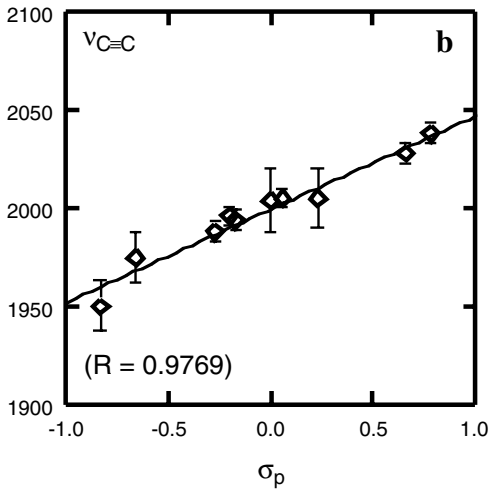
Paul, Mevellec and Lapinte; Figures S1a-b



$\nu_{C\equiv C}$ (cm^{-1}) = - 6.589 σ_p + 2055

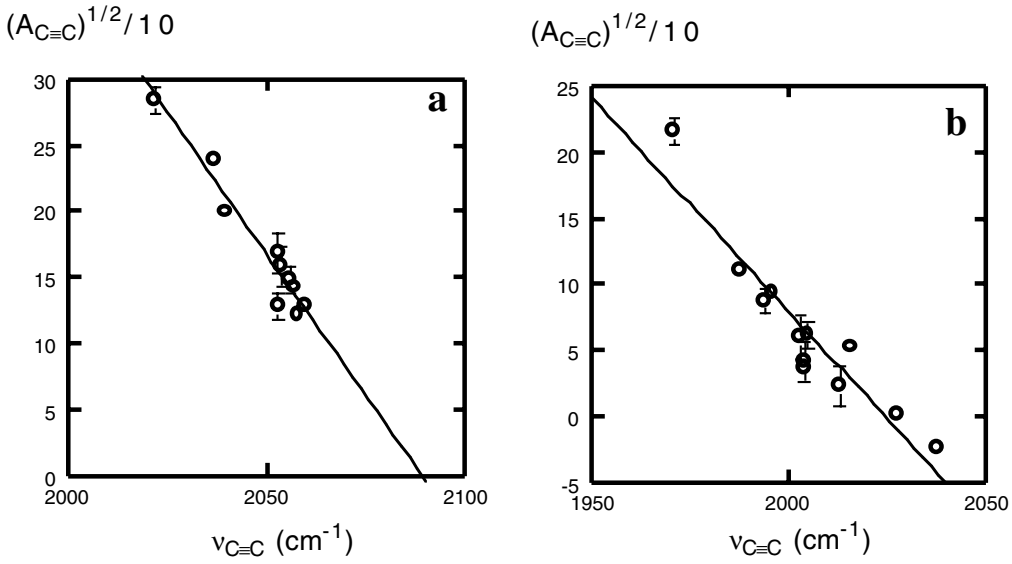
$\nu_{C\equiv C}$ (cm^{-1}) = - 120.8 σ_p + 2116



$\nu_{C\equiv C}$ (cm^{-1}) = 47.62 σ_p + 2000

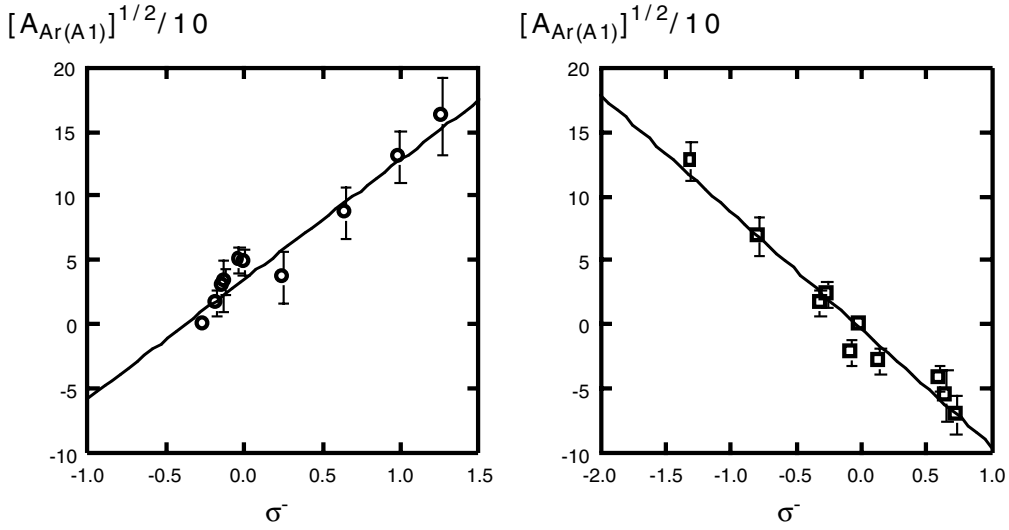
Solution infrared $\nu_{C\equiv C}$ vs. σ_p correlations for $[(\eta^2\text{-dppe})(\eta^5\text{-}C_5H_5)FeC\equiv C(C_6H_4)X]^{n+}$, $n[PF_6]^-$ complexes for n = 0 (a) and n = 1 (b) with X = NO_2, CN, CF_3, Br, F, H, Me, ^{t}Bu, OMe, NH_2.

Paul, Mevellec and Lapinte; Figures S2a-b



Solution infrared $[AC{\equiv}C]^{1/2}/10$ vs. $\nu_{C\equiv C}$ correlations for $[(\eta^2\text{-dppe})(\eta^5\text{-}C_5H_5)FeC{\equiv}C(C_6H_4)X^{n+}]$, $n[PF_6^-]$ complexes for n = 0 (a) and n = 1 (b).

Paul, Mevellec and Lapinte; Figures S3a-b



Solution infrared $[A_{Ar(A1)}]^{1/2}/10$ vs. ESP correlations for $[(\eta^2\text{-dppe})(\eta^5\text{-}C_5H_5)FeC{\equiv}C(C_6H_4)X]^{n+}$, $n[PF_6]^-$ complexes for n = 0 (left graph) and n = 1 (right graph) with X = NO_2, CN, CF_3, Br, F, H, Me, ^{t}Bu, OMe, NH_2.