Supporting Information (ic 061009q)

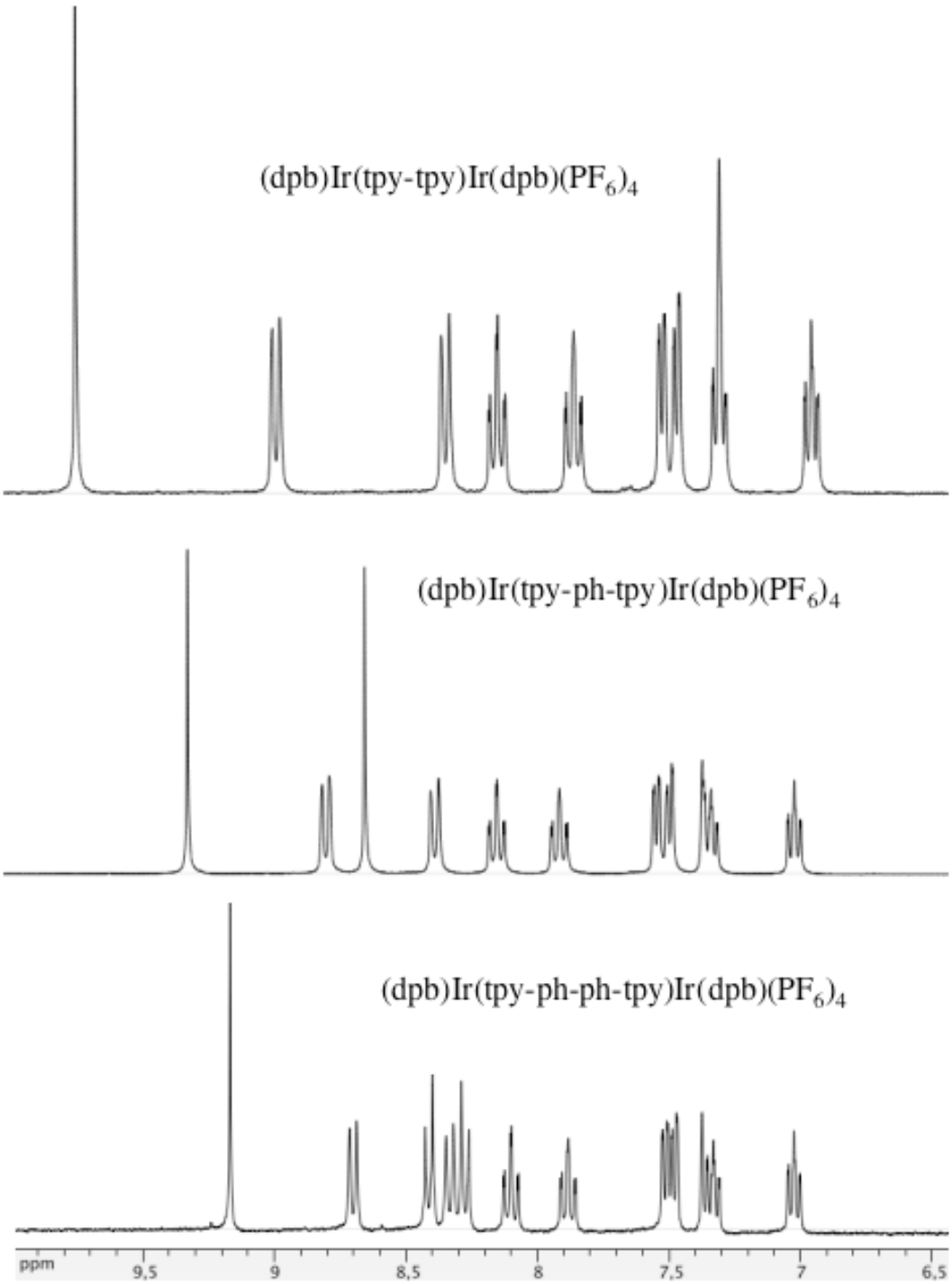
Dinuclear Iridium(III) Complexes consisting of back-to-back tpy-$(Ph)_n$-tpy bridging ligands (n= 0, 1 or 2) and terminal cyclometallating tridentate N-C-N ligands

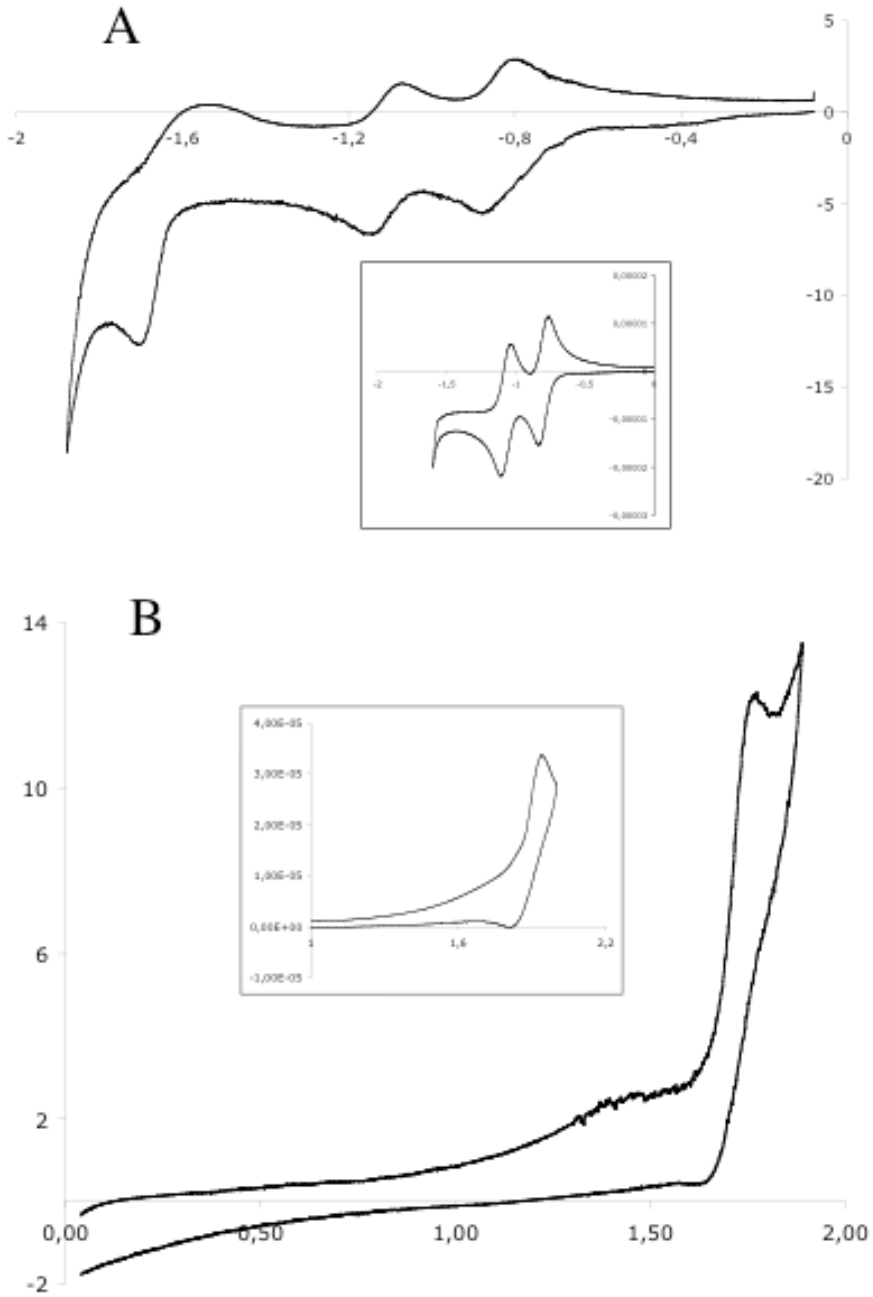
Audrey Auffrant[a], Andrea Barbieri[b], Francesco Barigelletti*[,b], Jean-Paul Collin*[,a], Lucia Flamigni[b], Cristiana Sabatini[b], Jean-Pierre Sauvage[a]

[a] *Laboratoire de Chimie Organo-Minérale, UMR 7513 du CNRS, Institut Le Bel, Université Louis Pasteur, 4 rue Blaise Pascal, 67000 Strasbourg Cedex, France*

[b] *Istituto per la Sintesi Organica e la Fotoreattività (ISOF), Consiglio Nazionale delle Ricerche (CNR), Via P. Gobetti 101, 40129 Bologna, Italy*

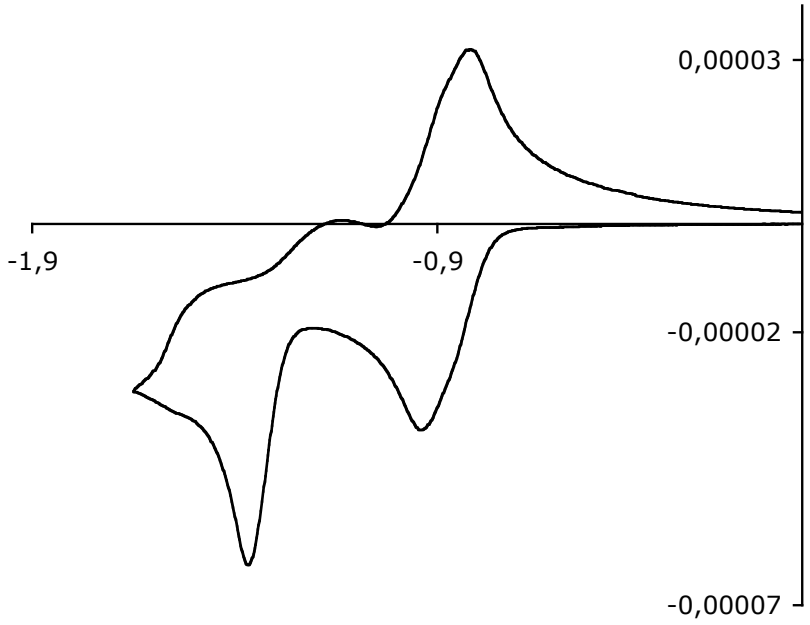
^{1}H NMR spectra (aromatic region) of the three dinuclear iridium complexes (300 MHz in CD_3CN)



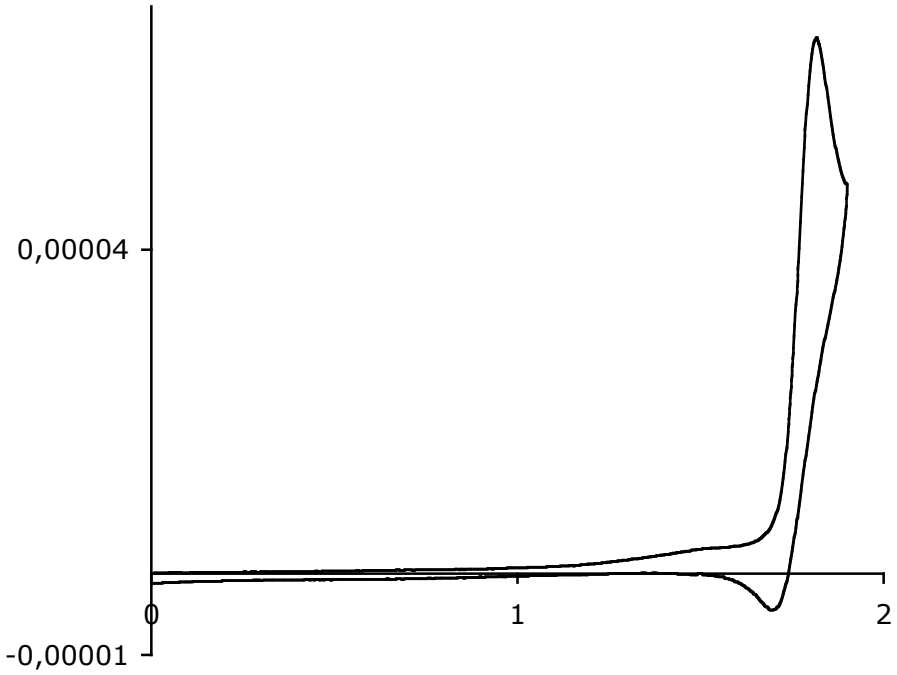


Cyclic voltammogram of (dpb)Ir(tpy-tpy)Ir(dpb)$^{4+}$ in CH_3CN (0,1M N(*n*Bu)$_4$PF$_6$) at a scan rate of 100 mVs^{-1}. A: 0 to -2 V potential range; B: 0 to 2 V potentail range. The insets show the 0 to –1.5 V and 1 to 2 V potential range for A and B respectively.

A

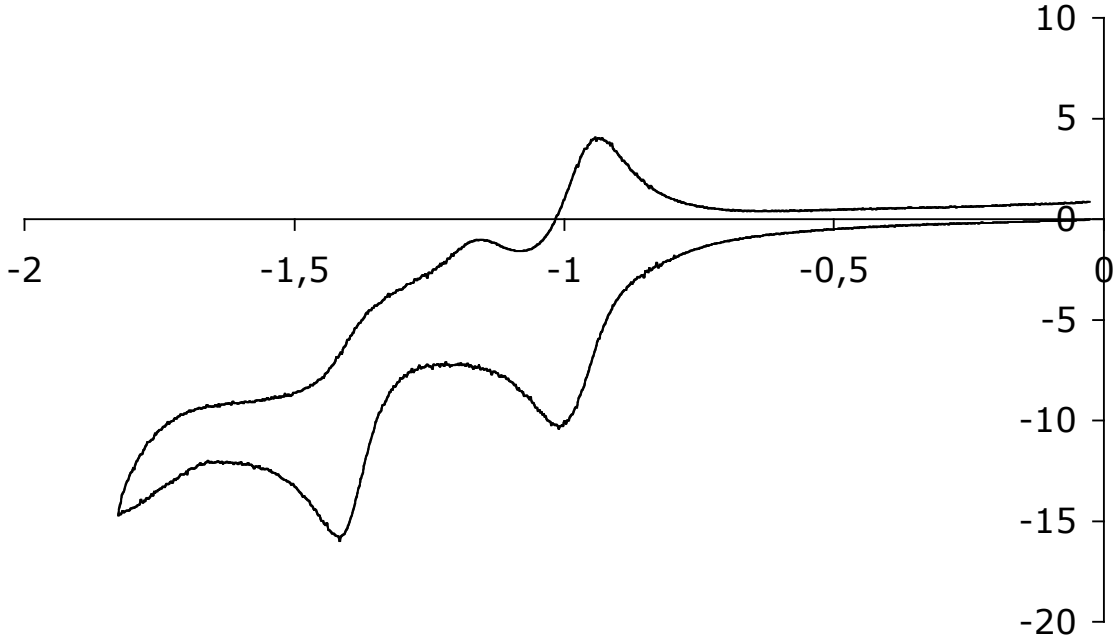


B

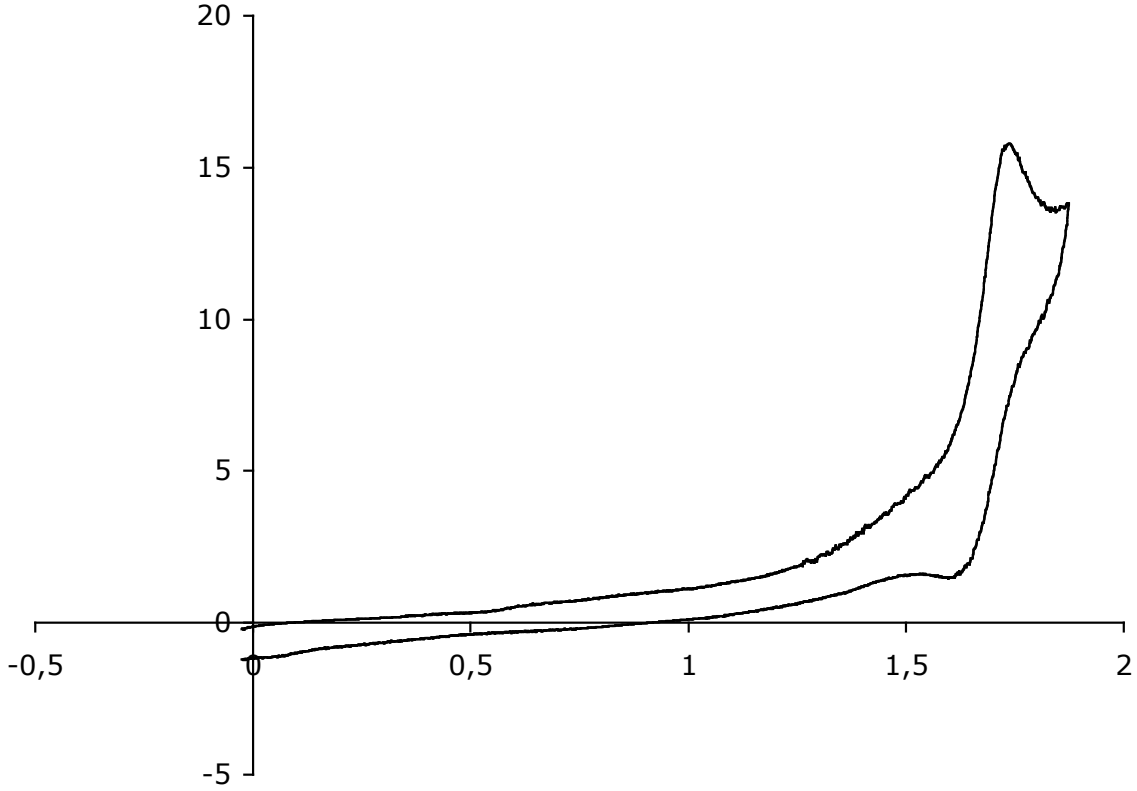


Cyclic voltammogram of (dpb)Ir(tpy-ph-tpy)Ir(dpb)$^{4+}$ in CH_3CN (0,1M N(nBu)$_4PF_6$) at a scan rate of 100 mVs^{-1}. A: 0 to -1.9 V potential range; B: 0 to 1.9 V potentail range.

A



B



Cyclic voltammogram of (dpb)Ir(tpy-ph-ph-tpy)Ir(dpb)$^{4+}$ in CH_3CN (0,1M N(*n*Bu)$_4$PF$_6$) at a scan rate of 100 mVs^{-1}. A: 0 to -1.9 V potential range; B: 0 to 1.9 V potential range .