Supplementary Material (ESI) for New Journal of Chemistry

The Supporting Information
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Table S1. DFT calculated bond angles (deg) of compounds **1-2** based on the optimized structures

	1a	**1b**	**2a**	**2b**
N1-Pt1-P1	81.1	81.0	78.7	78.4
N1-Pt1-C18	179.5	177.3	177.1	174.3
N1-Pt1-C19	93.9	94.6	95.3	96.8
N1-Pt1-C20	---	---	94.2	88.0
P1-Pt1-C18	98.5	96.3	99.4	95.9
P1-Pt1-C19	175.0	174.6	173.2	175.3
P1-Pt1-C20	---	---	90.7	92.5
C18-Pt1-C19	86.5	88.1	86.8	88.8
C18-Pt1-C20	---	---	87.9	92.2
C19-Pt1-C20	---	---	86.8	87.5
N1-Pt1-I1	---	---	85.7	84.9
P1-Pt1-I1	---	---	92.1	85.2
C18-Pt1-I1	---	---	92.3	94.7
C19-Pt1-I1	---	---	90.4	94.1
C20-Pt1-I1	---	---	177.1	172.9

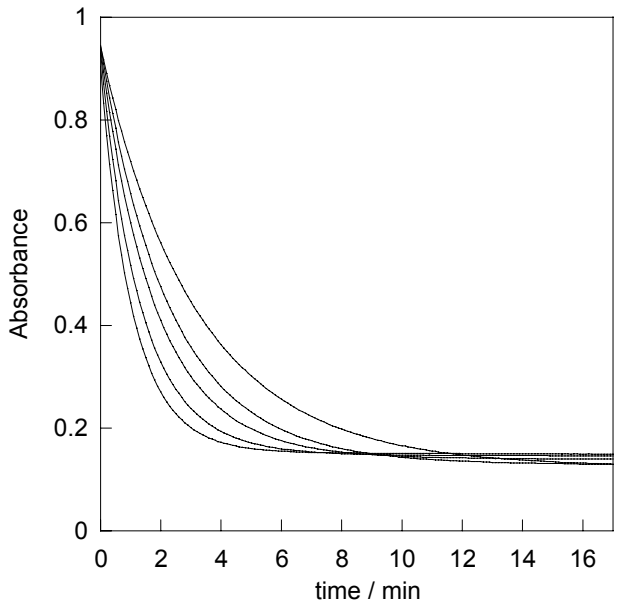

Fig. S1 Absorbance-time curves for the reaction of [$PtMe_2$(PN)] with MeI (2.65-15.9 mM with [MeI] increases reading downward) in benzene at 25 ºC.

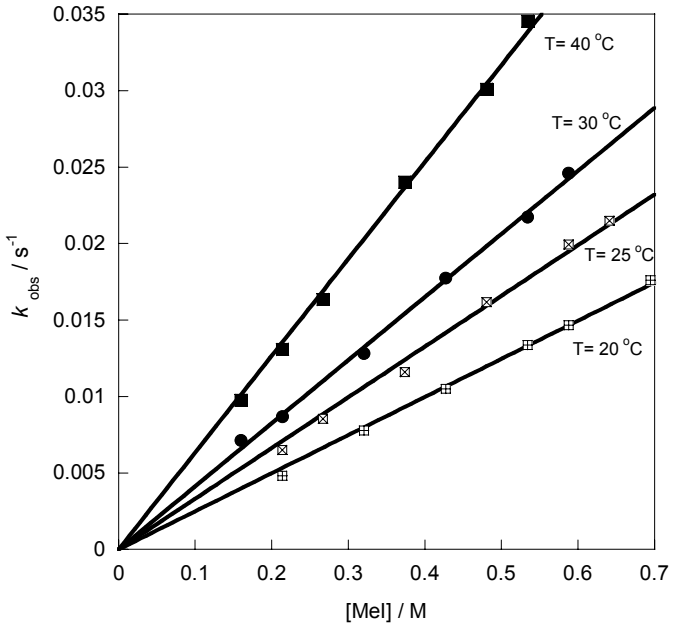

Fig. S2 Plots of first-order rate constants (k_{obs}/s^{-1}) for the reaction of [$PtMe_2$(PN)] with MeI in benzene at different temperatures versus concentration of MeI.

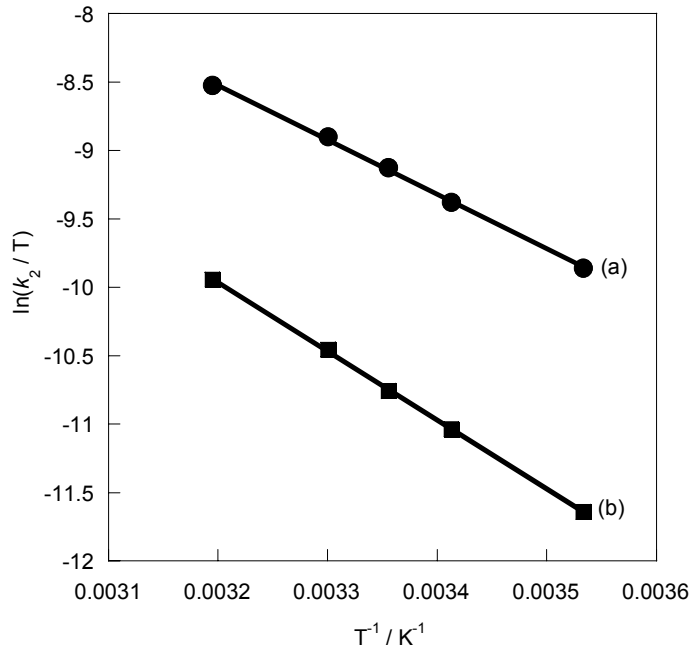

Fig. S3 Eyring plots for the reaction of (a) [$PtMe_2$(PN)] + CH_3I in benzene, (b) [Pt(*p*-$MeC_6H_4)_2$(PN)] + CH_3I in acetone.