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We have recently been investigating the one-bond coupling

(dppp)PtHSnPh (dppe and dppp are bis-diphenylphosphino ligands ligated by either a ethane (e) or propane (p) chain). This behavior is explained by two different mechanisms, one involving a fluxional process in which the two phosphorus atoms become equivalent and a second process in which chemical shift changes in the phosphorus atoms causes them to become magnetically equivalent. Because both things are happening at once, this can provide an opportunity to examine how the two react differently in NMR experiments that detect this behavior. We have been in contact with Timothy Claridge at Oxford University and are exploring a potential collaboration to investigate the platinum and tin satellites of these complexes.