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C→N COORDINATION BONDS IN (NL2)+ COMPLEXES

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N-heterocyclic carbenes (NHCs) are known to form coordination complexes with transition metals, also their coordination chemistry with main group elements is well established. In the recent past, the nitrogen cation centre was proven to be an efficient electron accepting centre. The unique bonding nature of electron donating ligands (NHC/Carbocyclic carbene) and nitrogen cation centre inspired us to design several complexes having (L→N←L')+ species and explore their applicability. In this work, the quantum chemical design, synthesis and X-ray diffraction analysis of the same are presented. Quantum chemical analysis established the divalent NI character at the central nitrogen, X-ray diffraction studies validated the structural features.

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