



Survey No. 36/P, Gopanpally Village, Serilingampally, Ranga Reddy Dist., Hyderabad - 500 046

Seminar

Diboron-Centred Diradicaloids and 1, 1-Dehydration/N-m-Terphenyl Substituents in **CAAC-Chemistry**

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Open shell singlet molecules in general are known for its photo-physical properties and various its subsequent applications in modern-chemical physics. In particular, the open-shell compounds such as diradicaloids involving electronstrikingly different, boron are however development is in early stage. On the other hand, cyclic (alkyl) (amino) carbenes (CAACs) play an important role for the isolation of extremely reactive compounds in recent time as well as it is known to exhibit transition metal like reactivity. However, to our surprise there was no report of CAAC involving N-m-terphenyl substituent. We have developed a modular methodology for the synthesis of dianionic as well as neutral diboron-centered diradicaloids. At the same time, we have disclosed the 1,1-dehydration of secondary alcohols to the introduced of CAACs synthesis and N-m-terphenyl substituents for the synthesis of CAACs, which exhibit intramolecular aromatic C-H and C-C bond activation.

Wednesday, Jul 10th 2024 11:30 Hrs (Tea / Coffee 11:15 Hrs) Auditorium, TIFR-H