



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

Students' Annual Seminar

Dianionic and Neutral Diboron Incorporated **Diradicaloids**

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In recent years boron containing π -conjugated molecules have drawn special attention due to their striking differences with those of only carbon systems.[1] In 2021, our group reported the anionic boron and carbon based diradicaloids separated by *p*-phenylene bridge.^[2] However, the synthesis of compounds having non-bonding electron at the electron-deficient boron centres is very challenging due to their extreme reactivity.[3] Now we are exploring dianionic and neutral diboron incorporated diradicaloids considering p-phenylene, p,p'-biphenylene, and p,p''terphenylene spacers between two non-bonding electron centres. In my talk I will showcase the last one-year progress of the chemistry of dianionic and neutral diboron incorporated diradicaloid systems.

References:

- [1] A. Deissenberger; E. Welz; R. Drescher; I. Krummenacher; R. D. Dewhurst; B. Engels; H. Braunschweig Angew. Chem., Int. Ed. 2019, 58, 1842-1846.
- [2] A. Maiti; F. Zhang; I. Krummenacher; M. Bhattacharyya; S. Mehta; M. Moos; C. Lambert; B. Engels; A. Mondal; H. Braunschweig; P. Ravat; A. Jana J. Am. Chem. Soc. 2021, 143, 3687-3692.
- [3] R. J. Kwaan; C. J. Harlan J. R. Norton Organometallics 2001, 20, 3818-3820.

Wednesday, May 10th 2023 2:00 PM (Tea / Coffee 01.45 PM) CR - 4, TIFR-H