

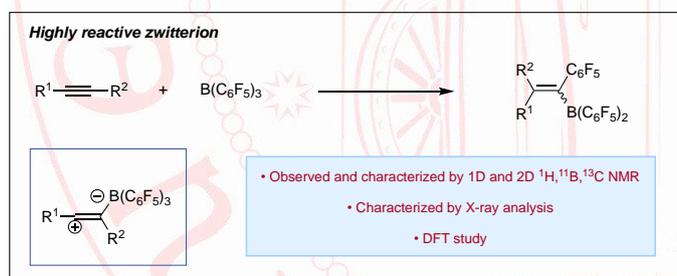
Lunedì **11 luglio 2022** alle ore **15:00** presso l'aula G

## il **Dr. Alessandro Bismuto**

Institute of Organic and Biomolecular Chemistry, Georg-August  
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terrà il seminario dal titolo:

# Chasing Reactive Intermediates in Main Group and Transition Metal Chemistry



The reductive functionalization of alkynes by 1,1-carbaboration using activated alkynes or highly Lewis acidic boranes has been studied by several groups. We described the isolation and the characterization of the postulated

reaction intermediate in 1,1-carbaboration, which can be considered as a s-complex of an alkyne with a borane. We have used a combination of single-crystal X-ray analysis, DFT calculations, and in situ NMR spectroscopy (1D/2D with  $^{13}C$  labelling) to fully characterize the zwitterionic intermediate in solution and the solid state. The isolation of this intermediate has provided access to unexpected reactivity towards alkene functionalisation.

*La presenza della S. V. sarà molto gradita*

Andrea Biffis

**Il Direttore del Dipartimento**  
Michele Maggini