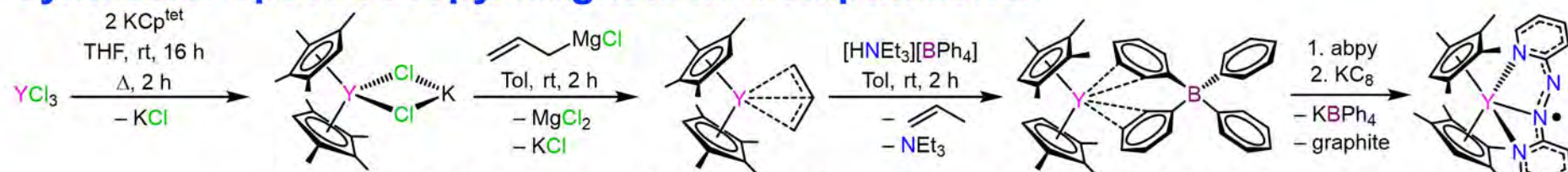


# The Interface of Organometallic Chemistry and Quantum Information Science

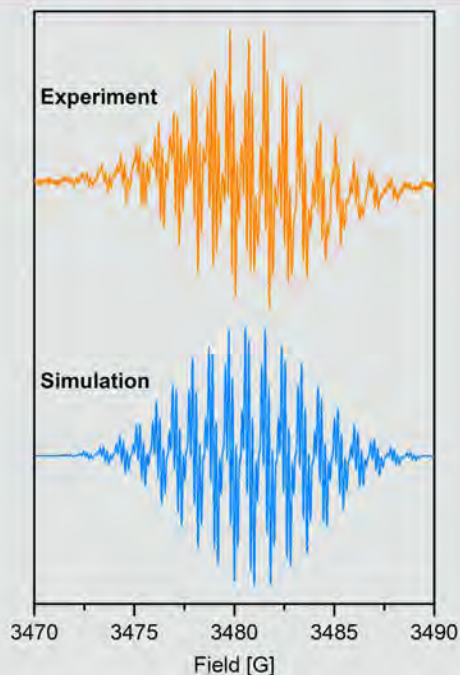


**Synthesis. Spectroscopy. Magnetism. Computations.**



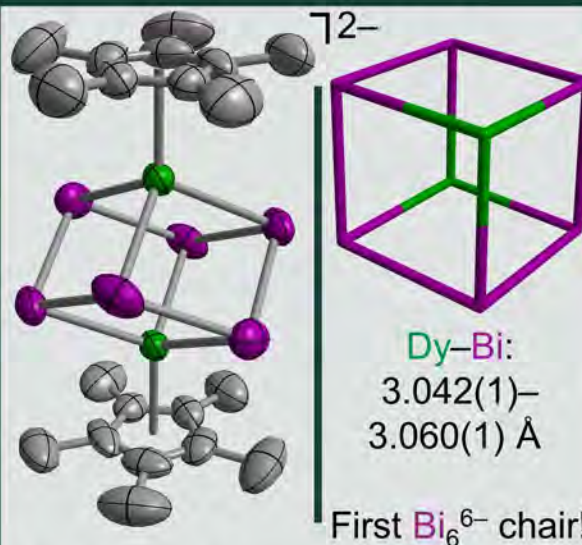
Delano IV, Castellanos, McCracken, Demir, *Chem. Sci.* **2021**, *12*, 15219.

## EPR Spectroscopy



Benner, Demir,  
*Chem. Sci.* **2022**, *13*, 5818.

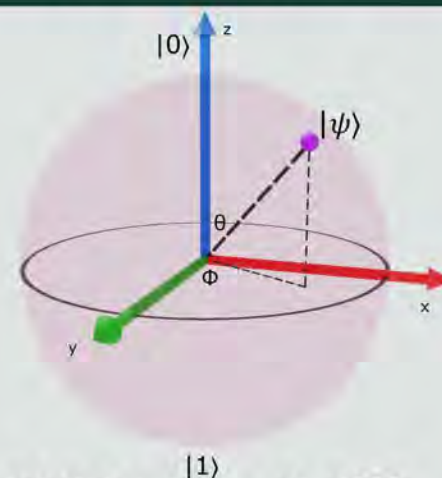
## Crystallography



## First Lanthanide Bismuth Metallocubane!

Zhang, Benner, Chilton, Demir,  
*Chem.* **2022**, *8*, 717.

## Quantum Bits



**300 Qubits  $\rightarrow 2^{300}$**   
**Classical Bits =  $10^{90}$**



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