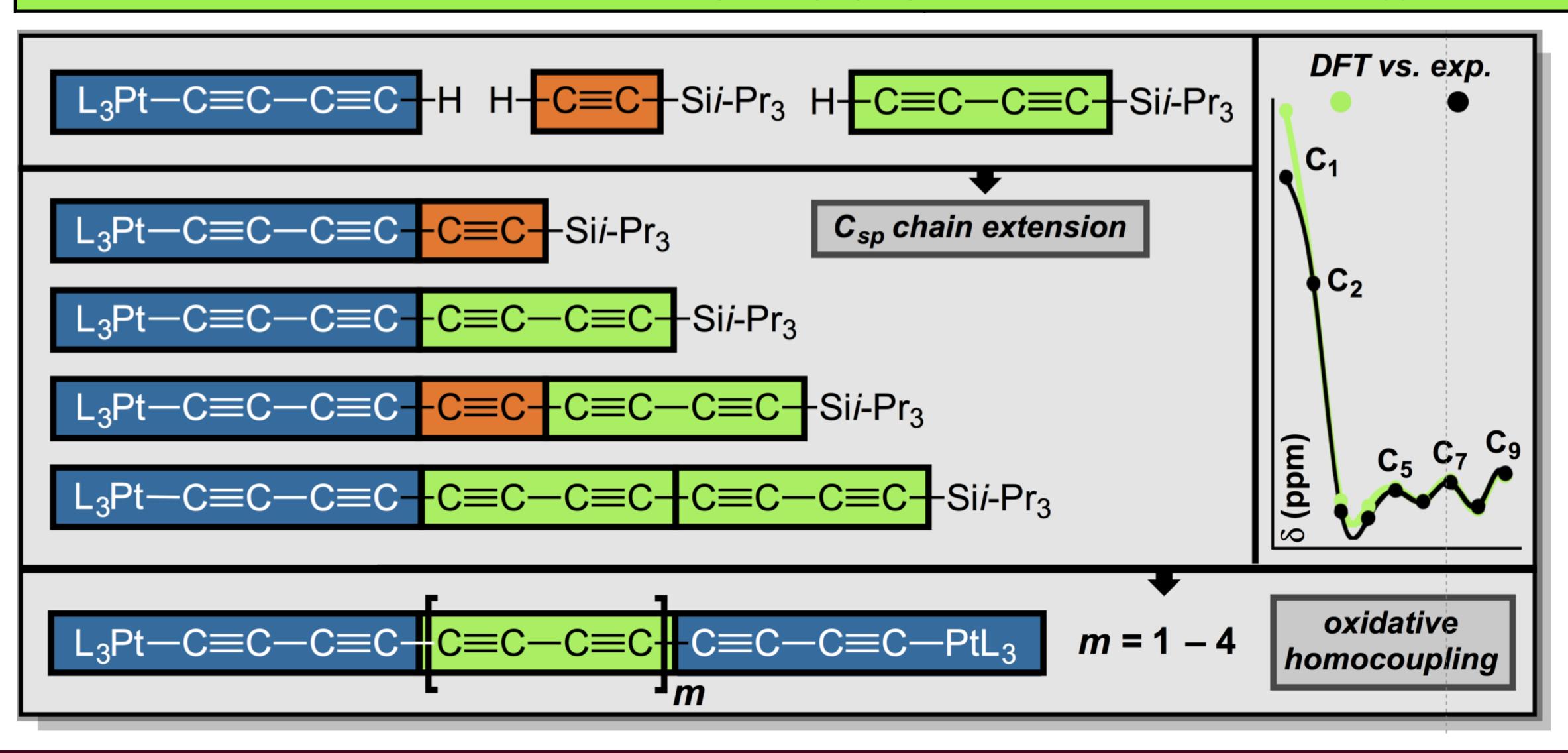
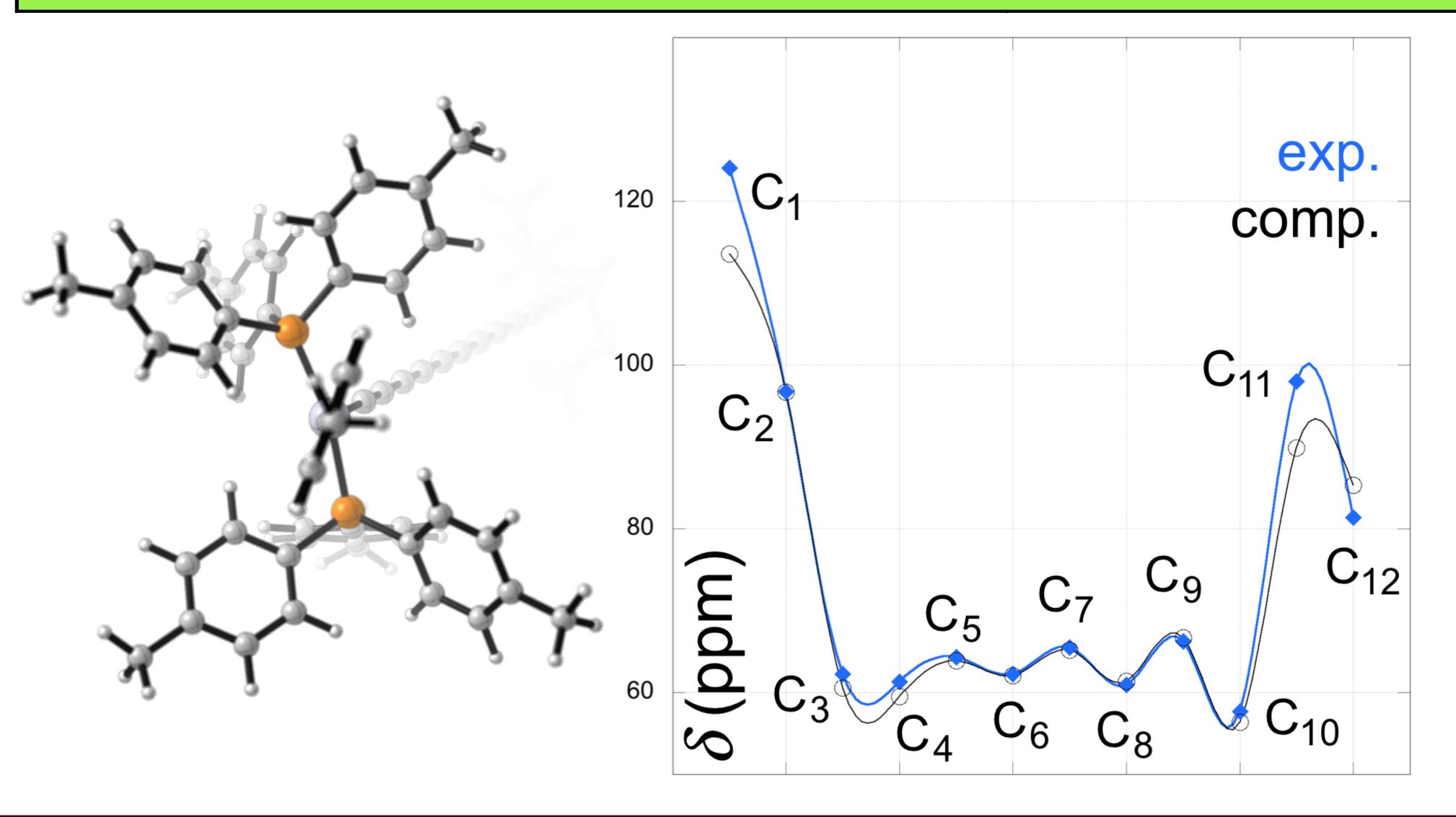


DFT Predict and assign ¹³C{¹H} signals in platinum end-capped polyynes



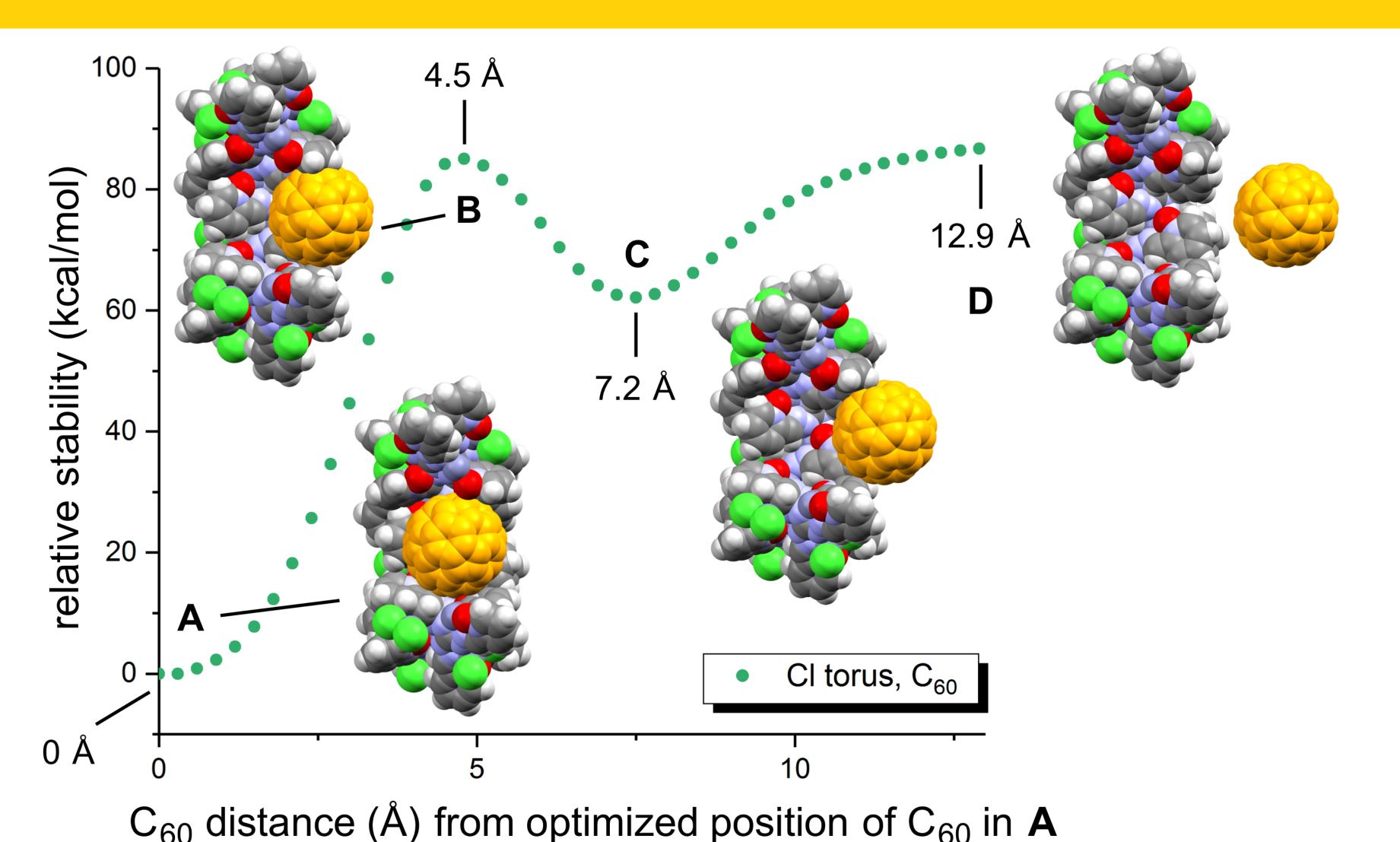
DFT Predict and assign ¹³C{¹H} signals in platinum end-capped polyynes



HPRC: TERRA cluster DFT: Gaussian 09

28 cores, 96 h

SUPRAMOLECULAR METALLACYCLES AND THEIR BINDING OF FULLERENES

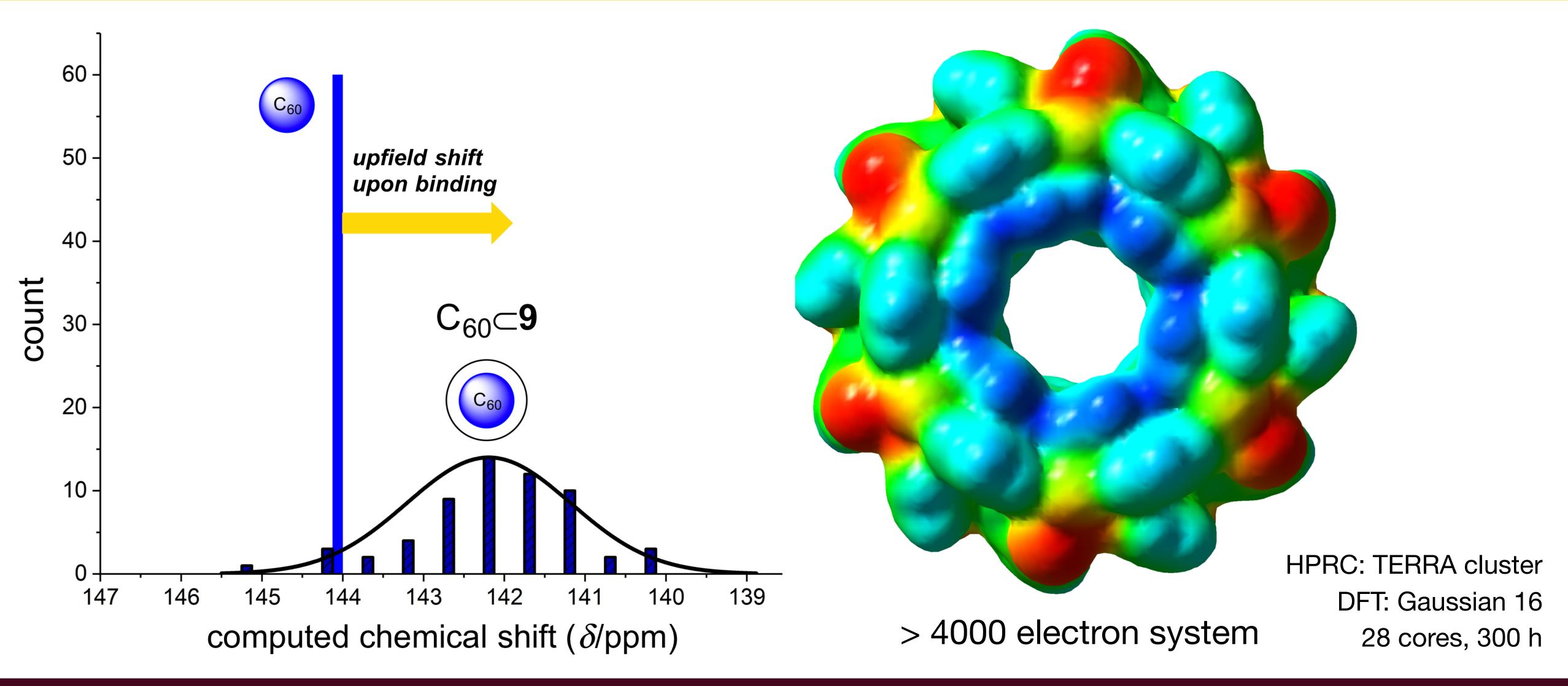


HPRC: TERRA cluster

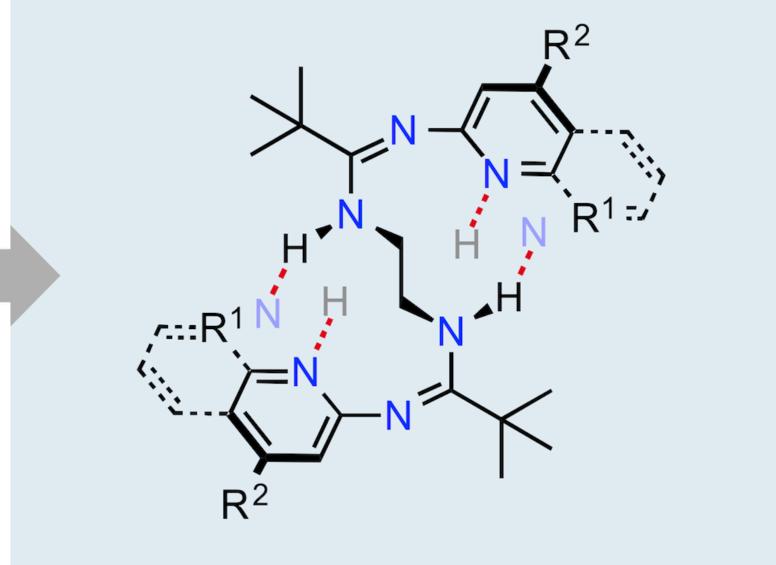
DFT: Gaussian 16

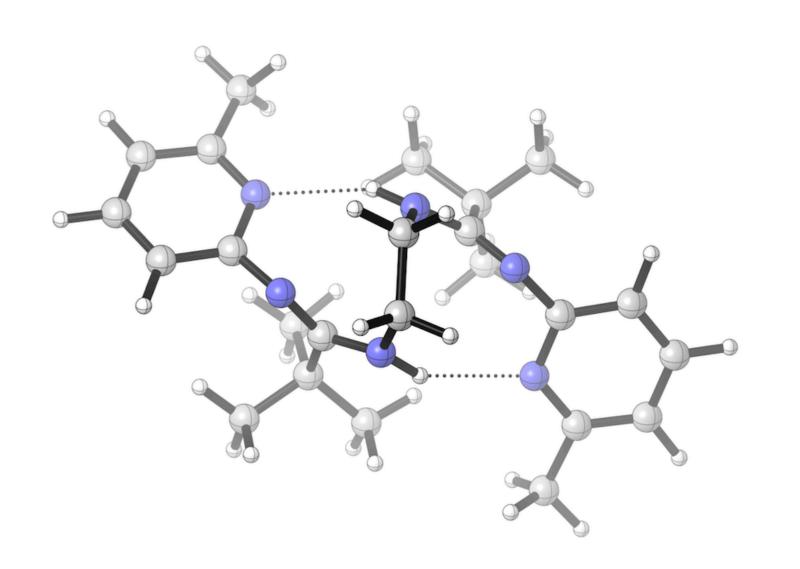
28 cores, 300 h

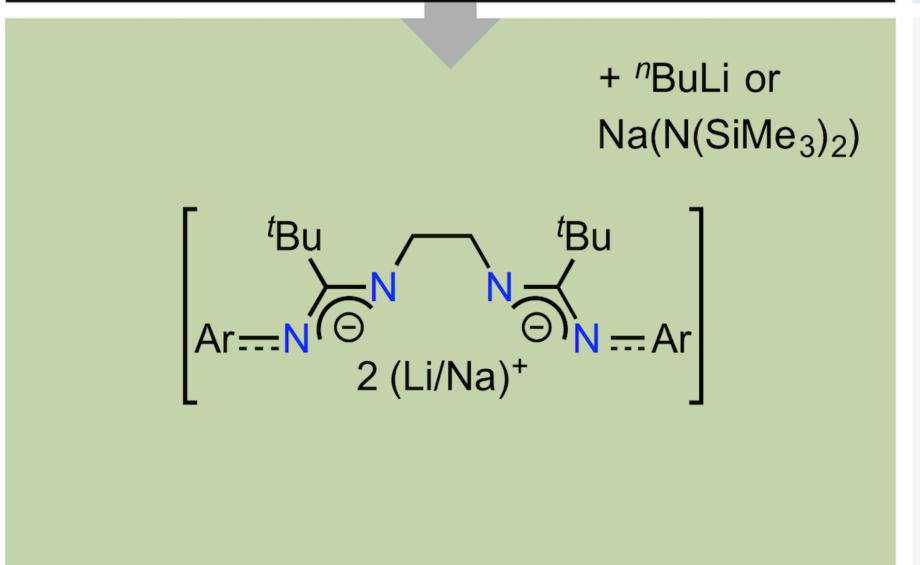
SUPRAMOLECULAR METALLACYCLES AND THEIR BINDING OF FULLERENES



$$R^2$$
 R^1
 R^1
 R^1
 R^2
 R^2
 R^2
 R^2

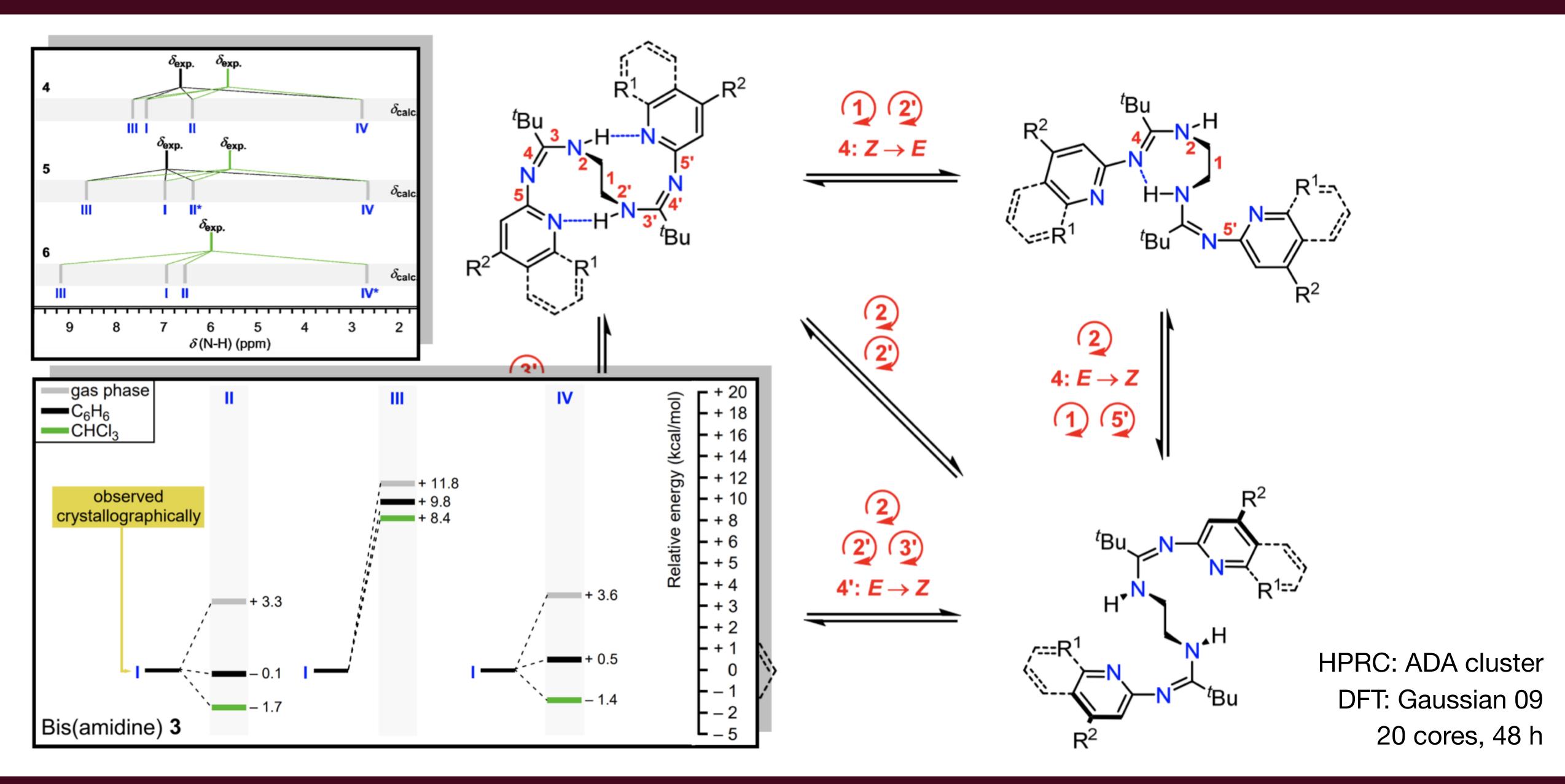






Hydrogen bonding in the solid state and in solution

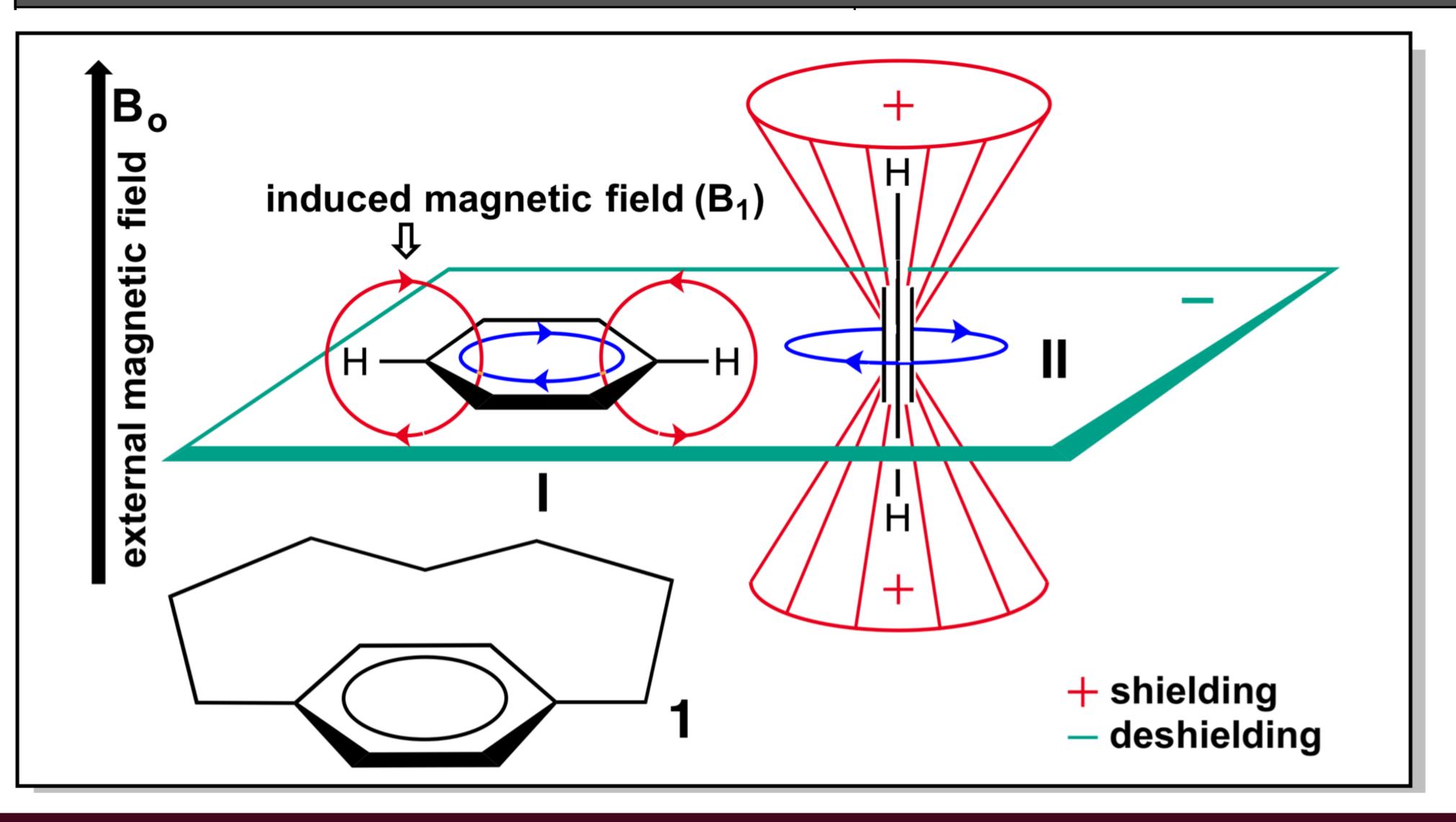
> **Photoluminescence** upon deprotonation



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Laboratory for Molecular Simulations

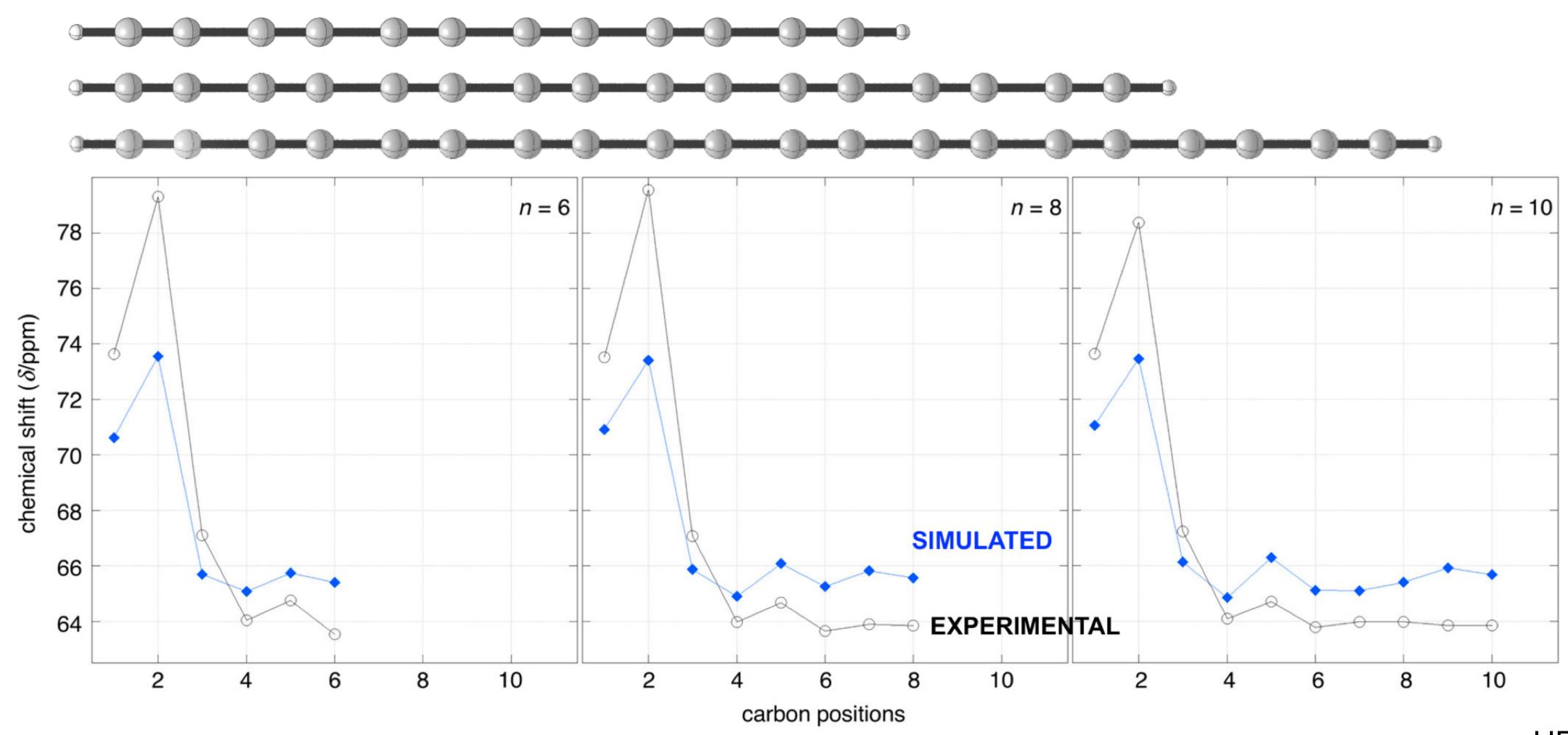
Origin of Shielding and Deshielding Effects in NMR Spectra of Organic Conjugated Polyynes



HPRC: ADA cluster

DFT: Gaussian 09

4 cores, 1 h <

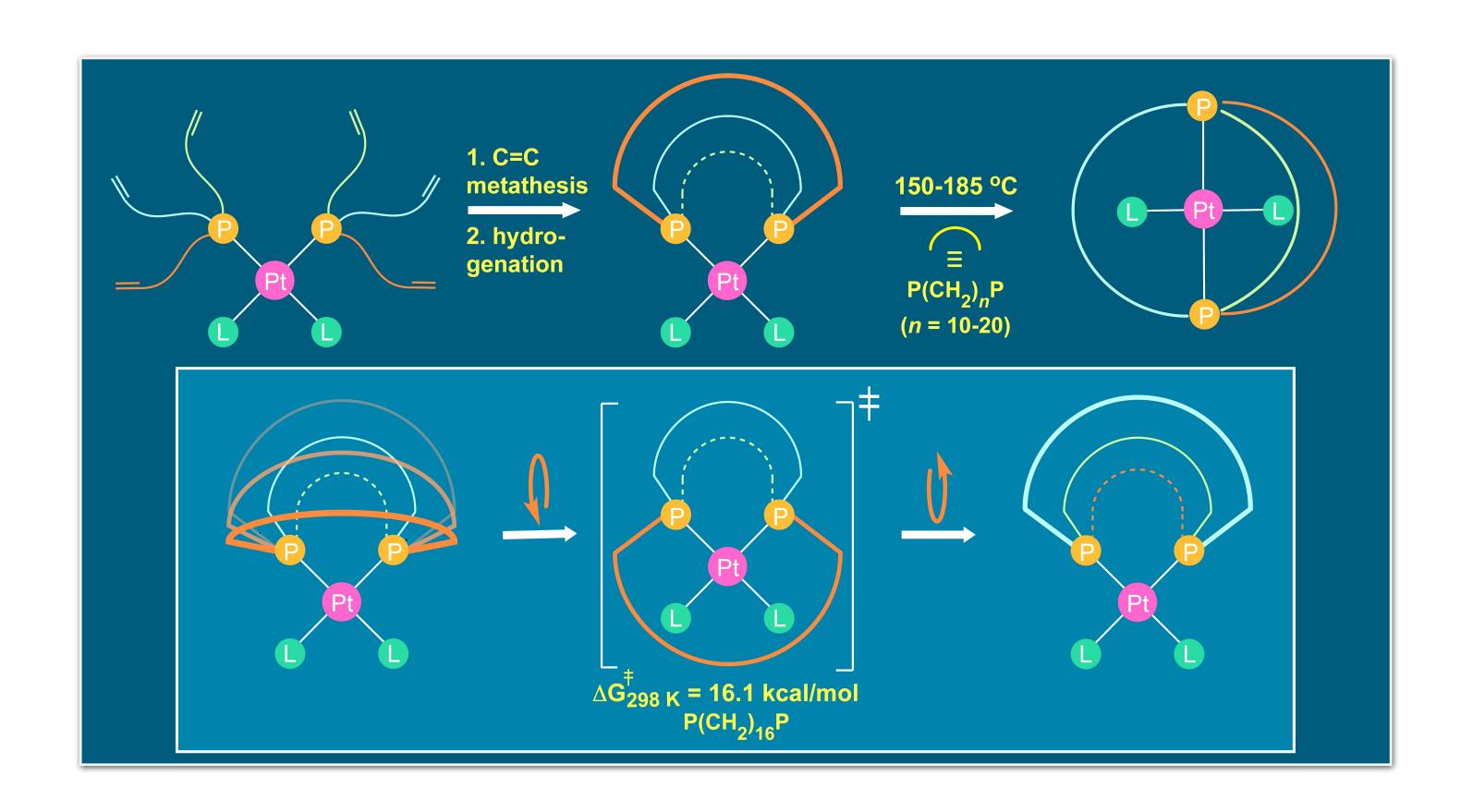


HPRC: ADA cluster

DFT: Gaussian 09

4 cores, 1 h <

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HPRC: ADA cluster

DFT: Gaussian 16

20 cores, 150+ h



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