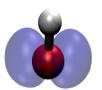
## P5707: ELECTRONIC STRUCTURE AND VIBRATIONAL SIGNATURES OF THE DELOCALIZED RADICAL IN HYDRATED CLUSTERS OF COPPER ("II") HYDROXIDE, CuOH+(H<sub>2</sub>O)<sub>0-2</sub>

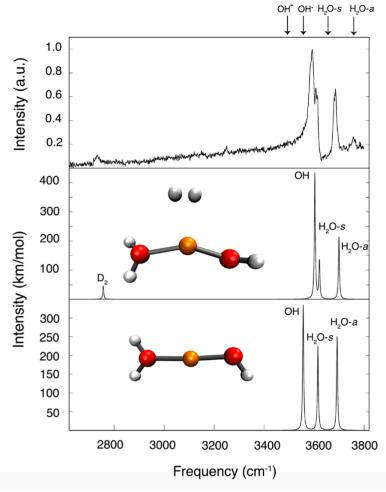
Elizabeth Christensen, Kevin Lutz, Ryan Steele University of Utah



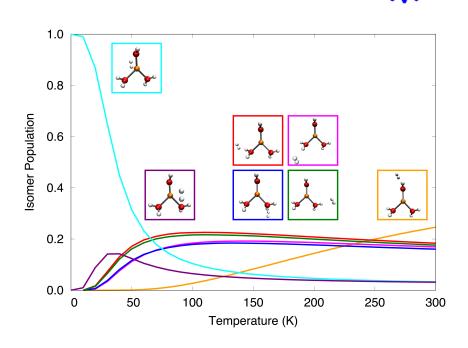




- Delocalized radical for CuOH<sup>+</sup>(H<sub>2</sub>O)<sub>0-2</sub>
- Some degree of multireference character



 D<sub>2</sub> tag distorts equilibrium geometry CuOH<sup>+</sup>(H<sub>2</sub>O)



- Tag degenerately binds to copper and water CuOH<sup>+</sup>(H<sub>2</sub>O)<sub>2</sub>
- Experimental agreement with
  - EOM-IP-CCSD/cc-pVTZ
  - Correct tag location
  - Thermal weighted spectrum