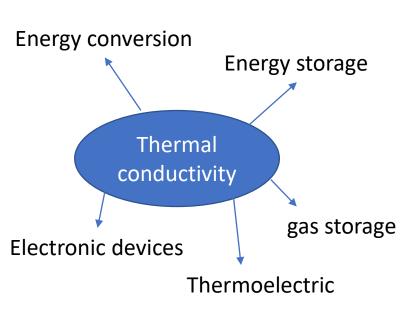


## CSSI Element: Enabling Accurate Thermal Transport Calculations in LAMMPS

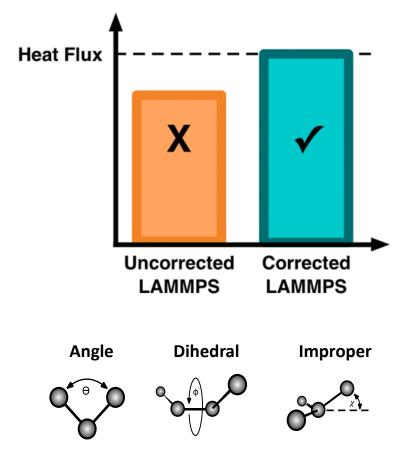
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Institutions: University of Pittsburgh, University of California-Berkeley

Thermal conductivity is important in many energy applications



No MD code can calculate heat flux correctly



## **Project Objectives**

- Implement the corrected heat flux computation for all supported many-body potentials in LAMMPS
- Identify the types of molecular systems most affected by the changed heat flux computations
- Apply and refine the methodology to predict thermal conductivity for several novel nanomaterial