The kappamode.out output file

From GPUMD

Jump to navigationJump to search

Contents

- 1 Brief Description
- 2 The keyword which produces the current file
- 3 File format
- 4 Tips

Brief Description

This file contains the modal thermal conductivity generated by the Homogeneous Nonequilibrium Modal Analysis (HNEMA) method.

The keyword which produces the current file

• compute hnema in run.in.

File format

This file reads:

$$\kappa_{1,1}^{x,in} \ \kappa_{1,1}^{x,out} \ \kappa_{1,1}^{y,in} \ \kappa_{1,1}^{y,out} \ \kappa_{1,1}^{z} \\ \kappa_{1,2}^{x,in} \ \kappa_{1,2}^{x,out} \ \kappa_{1,2}^{y,in} \ \kappa_{1,2}^{y,out} \ \kappa_{1,2}^{z} \\ \vdots \qquad \vdots \qquad \vdots \qquad \vdots \\ \kappa_{1,n}^{x,in} \ \kappa_{1,n}^{x,out} \ \kappa_{1,n}^{y,in} \ \kappa_{1,n}^{y,out} \ \kappa_{1,n}^{z} \\ \kappa_{2,1}^{x,in} \ \kappa_{2,1}^{x,out} \ \kappa_{2,1}^{y,in} \ \kappa_{2,1}^{y,out} \ \kappa_{2,1}^{z} \\ \vdots \qquad \vdots \qquad \vdots \qquad \vdots$$

- Each output is in units of Wm⁻¹K^{-1/2}
- The indices denote the output number (left) and the bin (right).
- lacktriangle Each output will have n bins which are determined by the compute hnema keyword inputs.

Tips

■ The thermo (https://github.com/AlexGabourie/thermo) Python package contains code to process this output file.

Retrieved from "https://gpumd.zheyongfan.org/index.php? title=The kappamode.out output file&oldid=21022"

■ This page was last edited on 11 August 2020, at 21:27.