The D.out output file

From GPUMD Jump to navigationJump to search

Purpose

lacksquare This file contains the dynamical matrices $D(ec{k})$ at different k points.

File format

- It has 3 * N_basis * N_kpoints rows and 6 * N_basis columns, where N_basis is the number of basis atoms in the unit cell defined in the basis.in file and N_kpoints is the number of k points in the kpoints.in file.
- Each consecutive 3 * N_basis rows correspond to one k point. For each k point, the first 3 * N_basis columns correspond to the real part and the second 3 * N_basis columns correspond to the imaginary part. Schematically, the file is organized as:

```
D_real(k_0) D_imag(k_0)
D_real(k_1) D_imag(k_1)
...
```

■ The matrix elements are in units of eV A⁻² amu⁻¹.

Retrieved from "https://gpumd.zheyongfan.org/index.php?title=The D.out output file&oldid=21390"

■ This page was last edited on 23 August 2020, at 10:37.