

Experimental data taken on a Nb<sub>0.25</sub>Bi<sub>2</sub>Se<sub>3</sub> single crystal including, magnetoresistance for magnetic fields applied parallel to the Bi<sub>2</sub>Se<sub>3</sub> basal plane for various in-plane directions of the magnetic field, zero-field thermal expansion, specific heat, DC magnetization, zero-field electric resistivity. Magnetostriction at 0.3 K.

Description of data:

Thermal expansion: Files: alpha90deg.dat, alpha155deg.dat, alpha215deg.dat: thermal expansion measured along 3 different in-plane directions: 90 degrees, 155 degrees, 215 degrees, respectively. First column: T (K), second column Delta L/L<sub>0</sub>

Specific heat: File: Cp.dat First column: T (K), second column C/T (mJ/mol/K<sup>2</sup>)

DC magnetization: File: MagZFC.dat and MagFC.dat measured under zero-field cooled (ZFC) and field-cooled (FC) condition. First column: T (K), second column M (emu/cm<sup>3</sup>/Oe).

Zero-field resistivity: File: resistivity.dat, First column: T (K), second column rho (mOhm cm)

Magnetoresistance: Various files: MR90deg.dat,... The in-plane orientation of the magnetic field is indicated in the file name. First column: H (T), second column rho (mOhm cm).