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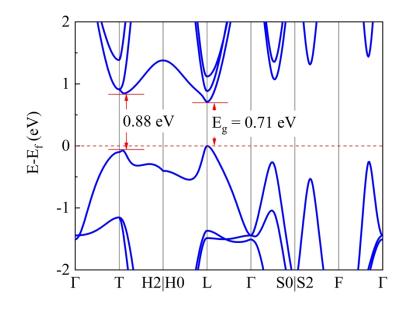


Fig. S1 The electronic band structure of bulk-GeTe by our first-principles calculations.

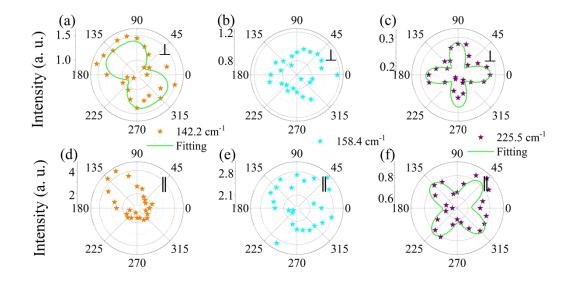


Fig. S2 (a)-(f) Polarization angle dependent Raman peak intensities at 142.2 cm<sup>-1</sup>, 158.4 cm<sup>-1</sup>, and 225.5 cm<sup>-1</sup> under the parallel or cross configurations. Stars - experimental data, curves – fit results.

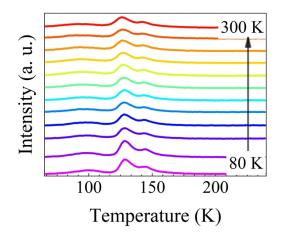


Fig. S3 Raman spectra of GeTe at 80 K-300 K where the step of temperature increase is 20 K.