Figure 1: Graphene sheet with a hole in it
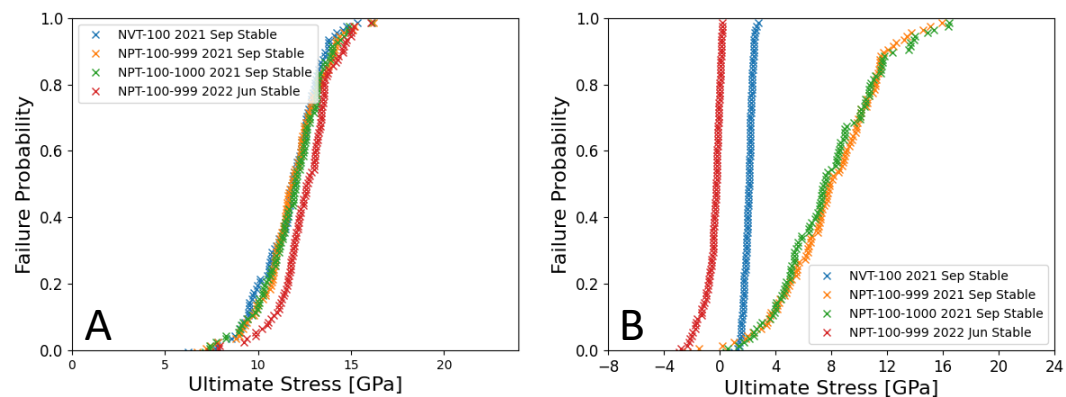

Figure 2 : Series of 10 graphene stress strain fracture curves with corresponding temperature.

(A) NVT with thermostat 100Δ, LAMMPS version Sep 2021 Stable
(B) NPT with thermostat 100Δ, barostat 999Δ, LAMMPS version Jun 2022 Stable
(C) NPT with thermostat 100Δ, barostat 999Δ, LAMMPS version Sep 2021 Stable
(D) NPT with thermostat 100Δ, barostat 1000Δ, LAMMPS version Sep 2021 Stable

Figure 3 : Failure probability of 100 graphene sheets per damping parameter combination under tensile load.
(A) Axial tensile behavior sampled at ultimate axial stress
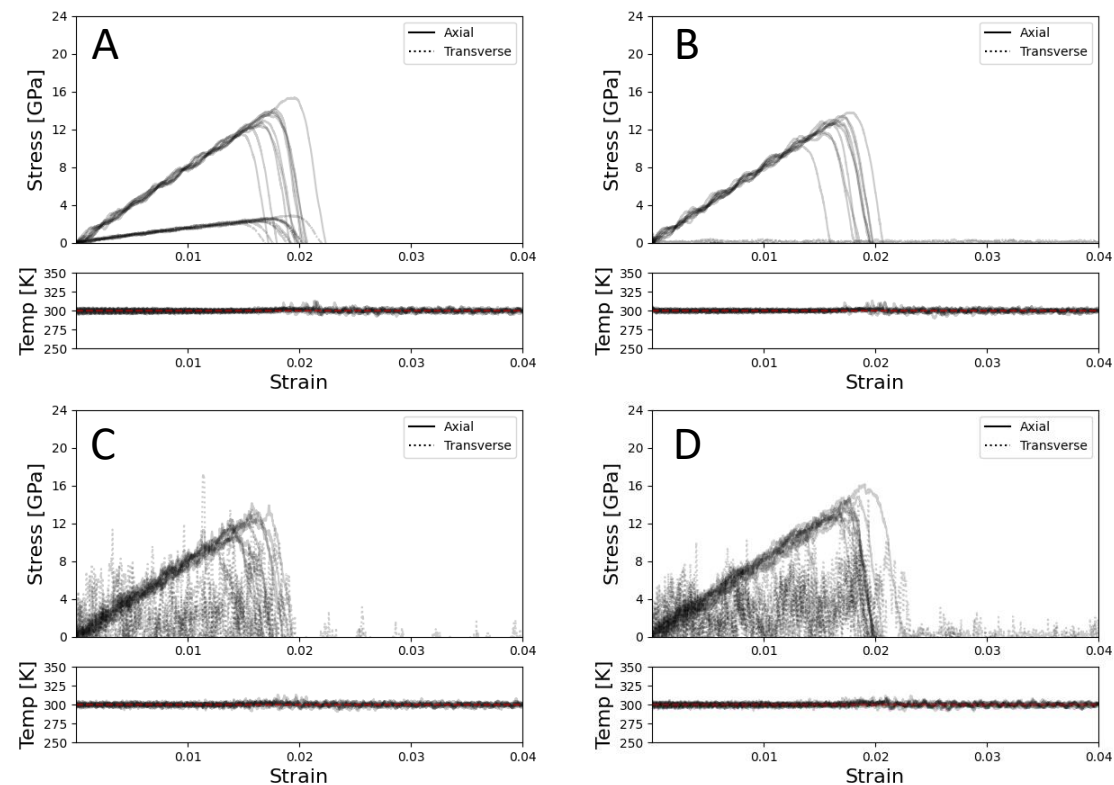(B) Transverse tensile behavior sampled at ultimate axial stress