**Coexistent Topological and Chiral Phonons in Chiral RhGe: An ab initio study**

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We have predicted the topological and chiral phonon behavior in RhGe using first-principles calculations. This material hosts multiple double-Weyl points in both its acoustic and optical phonon branches. Specifically, a spin-1 Weyl point appears at the Γ point, and charge-2 Dirac points are observed at the R points in the Brillouin zone (BZ). The topological nature of the phonons in RhGe is confirmed by the presence of topologically protected nontrivial phonon surface states and corresponding iso-frequency contours observed in the (001) and (111) surface BZ. Additionally, phonon angular momentum calculations further validate the chiral nature of the phonons in RhGe.