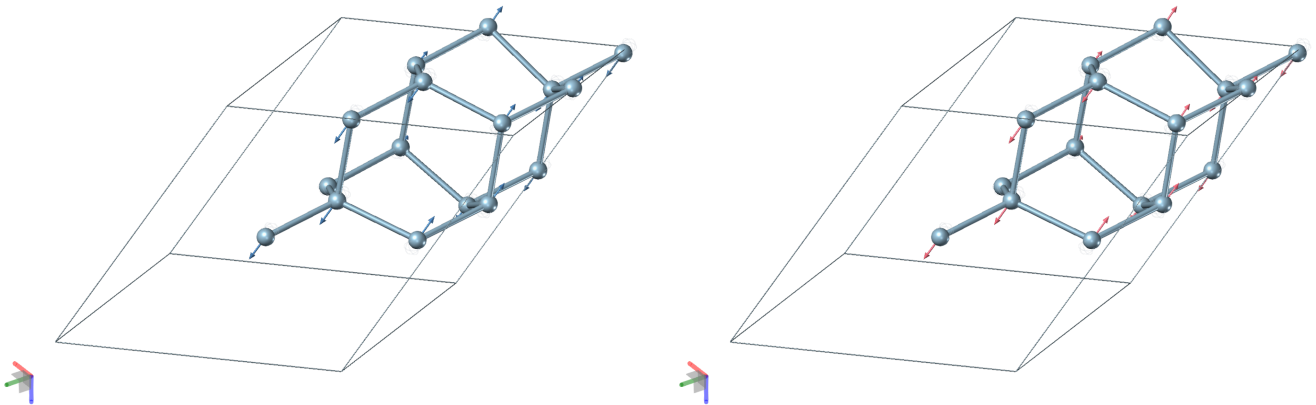
(a) Direct reference: 4.6445 THz

(b) Frozen prediction: 4.6260 THz



Lowest mode at $q = (1, 4, 7)/12$; common eigenvector phase; 16 displayed Si atoms.

Display amplitude: 0.20 Å. Arrow gain: 4. Mode overlap $|e_{\mathrm{ref}}^{\dagger} e_{\mathrm{pred}}|^2 = 0.999994$.