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Modified Debye spectra in disordered solids J.C. LASHLEY, D.J. SAFARIK, M.F. HUNDLEY, R.B. SCHWARZ, Los Alamos National Laboratory, A. PLANES, Universitat de Barcelona — Low-energy modes, as manifested by an excess phonon heat capacity, are ubiquitous in glasses and is often thought to be a signature of a glassy or disordered state. However, this feature is also observed in negative thermal expansion crystals, thermoelectrics, and shape-memory alloys. We compare the peaks in metallic glasses and shape-memory alloys as a function of disorder and crystallinity.

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