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**Constantine Stassis Professor (retired) - Iowa State University, USA**  
**Senior Physicist (retired) - Ames Lab - USDOE**



Ph. D. 1970, Physics Department, Massachusetts Institute of Technology  
Research Associate, Physics Department, MIT 1970-71  
Iowa State University/Ames Laboratory, 1971-2005.

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### RESEARCH INTERESTS

- Neutron diffraction from magnetic crystals; polarized neutron investigation of spin densities in metals; spin waves in metals; lattice dynamics.

### SELECTED PUBLICATIONS

- M. Bullock, J. Zarestky, C. Stassis, A. Goldman, P. Canfield, Z. Honda, G. Shirane, S.M. Shapiro, "Low Energy Phonon Excitations in Superconducting  $\text{RENi}_2\text{B}_2\text{C}$  (RE=Lu,Y)," *Phys. Rev. B* **57**, 7916 (1998).
- M. Bullock, C. Stassis, J. Zarestky, A. I. Goldman, P. Canfield, G. Shirane, S. Shapiro, "Inelastic Neutron Scattering Studies of the Low-Energy Phonon Excitations in the  $\text{RENi}_2\text{B}_2\text{C}$  Superconductors," *Physica B* **241-243**, 798 (1998)
- C. Stassis, J. Zarestky, A. Goldman, P. Canfield, G. Shirane, S. Shapiro, "Anomalous Phonons Below  $T_c$  in Superconducting  $\text{RNi}_2\text{B}_2\text{C}$  (R = Lu, Y), *Physica C* **317-318**, 127 (1999).
- J. Zarestky, C. Stassis, A. Goldman, P. Canfield, G. Shirane, S. Shapiro, "Phonon Profiles in Superconducting  $\text{Yn}_2\text{B}_2\text{C}$  and  $\text{LuNi}_2\text{B}_2\text{C}$ ," *Phys. Rev. B* **60**, 11932 (1999).
- S. H. Lee, C. F. Majkczak, S. K. Sinha, C. Stassis, H. Kawano, G. Lander, P. Brown, H. F. Fong, S. W. Cheong, H. Matsushita, K. Yamada, Y. Endoh, "Search for Orbital Moments in Underdoped Cuprate Metals – A Sisyphean Experience," *Phys. Rev. B* **60**, 10405 (1999).
- C. Stassis, "Techniques for the Study of Phonons," Section 14.7 in *Methods of Materials Research*, John Wiley and Sons, Inc. (2000).
- C. Stassis, "Inelastic Neutron Scattering," in *Handbook of Elastic Properties of Solids* Academic Press (New York, NY) (2001).
- C. Stassis, "Neutron Scattering", in *Handbook of Elastic Constants*, Pergamon Press.
- C. Stassis, "Techniques for the study of phonons", Section 14.7 in *Methods of Materials Research*, John Wiley and Sons, Inc. (2000).
- Ll. Mañosa, J. Zarestky, M. Bullock, and C. Stassis, Low lying phonon dispersion curves of  $\text{Cu}_3\text{Al}(\text{+Be})$ , *Phys. Rev. B* **59**, 9239 (1999).
- C. Stassis, J. Zarestky, A. Goldman, P. Canfield, G. Shirane, and S. Shapiro, Anomalous phonons below  $T_c$  in superconducting  $\text{RNi}_2\text{B}_2\text{C}$  (R = Lu, Y), *Physica C* **317-318**, 127 (1999).
- J. Zarestky, C. Stassis, A. Goldman, P. Canfield, G. Shirane, and S. Shapiro, Phonon profiles in superconducting  $\text{YNi}_2\text{B}_2\text{C}$  and  $\text{LuNi}_2\text{B}_2\text{C}$ , *Phys. Rev. B* **60**, 11932 (1999).
- U. Yaron, P. L. Gammel, A. P. Ramirez, D. A. Huse, D. J. Bishop, A. I. Goldman, C. Stassis, P. C. Canfield, K., Mortenson, M. R. Eskildsen Observation of a square flux-line lattice in the magnetic superconductor  $\text{ErNi}_2\text{B}_2\text{C}$ , *Nature* **382**, 236 (1996).

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