



LAWRENCE BERKELEY NATIONAL LABORATORY

































PHI TERM ABOVE is +1 IF ATOM MOTIONS ARE PERFECTLY CORRELATED, 0 IF THEY ARE UNCORRELATED AND -1 IF ANTICORRELATED

































	Further reading
•	Overviews:
	<ul> <li>B. K. Teo, "EXAFS: Basic Principles and Data Analysis" (Springer, New York, 1986).</li> </ul>
	- Hayes and Boyce, Solid State Physics 37, 173 (1982).
	<ul> <li>"X-Ray Absorption: Principles, Applications, Techniques of EXAFS, SEXAFS and XANES", ed. by Koningsberger and Prins (Wiley, New York, 1988).</li> </ul>
•	Historically important:
	- Sayers, Stern, Lytle, Phys. Rev. Lett. 71, 1204 (1971).
•	History:
	- Lytle, J. Synch. Rad. 6, 123 (1999). (http://www.eyafsco.com/technapers/index.html)
	— Stumm von Bordwehr, Ann. Phys. Fr. 14, 377 (1989).
•	Theory papers of note:
	- Lee, Phys. Rev. B 13, 5261 (1976).
	- Rehr and Albers, Rev. Mod. Phys. 72, 621 (2000).
•	Useful links
	- xafs.org (especially see Tutorials section)
	- http://www.i-x-s.org/ (International XAS society)
	- http://www.csrri.iit.edu/periodic-table.html (absorption calculator)



## **Further reading**

- Correlated-Debye model:
  - Good overview: Poiarkova and Rehr, Phys. Rev. B 59, 948 (1999).

LAWRENCE BERKELEY NATIONAL LABORATORY

- Beni and Platzman, Phys. Rev. B 14, 1514 (1976).
- Sevillano, Meuth, and Rehr, Phys. Rev. B 20, 4908 (1979). Correlated Einstein model
- Van Hung and Rehr, Phys. Rev. B 56, 43 (1997).

## Acknowledgements

- Matt Newville (Argonne National Laboratory)
- Yung-Jin Hu (UC Berkeley, LBNL)
- Frank Bridges (UC Santa Cruz)

