

Temperature dependence of the fine structure of the NiO critical points

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In Fig. 1, we show the second derivative of the pseudodielectric function with respect to photon energy at 77 K and 300 K. In this presentation, we will discuss the temperature dependence of the smaller peaks in these spectra and attribute them to features in the band structure of NiO.

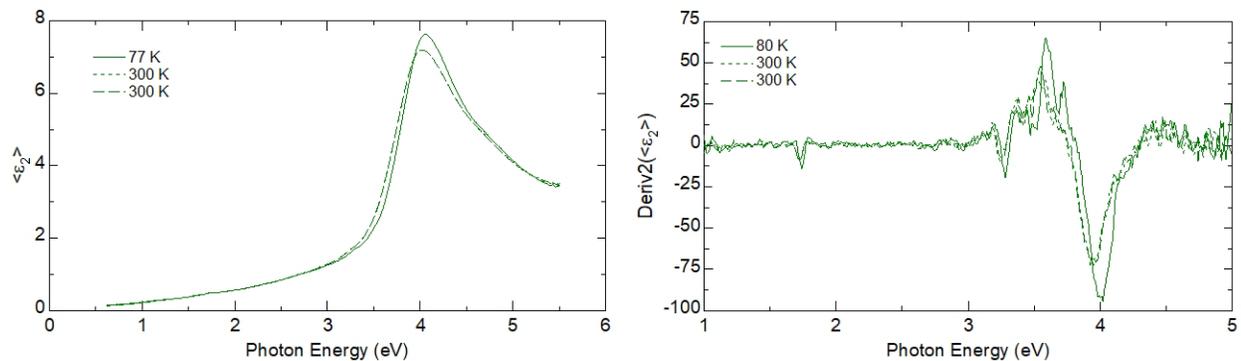


Figure 1: Left: Imaginary part of the dielectric function of bulk NiO at 77 K (solid) and at 300 K (before and after cooling to 77 K). Right: Second derivative of the same data.

References:

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2. A. Ghosh, C.M. Nelson, L.S. Abdallah, and S. Zollner, J. Vac. Sci. Technol. A **33**, 061203 (2015).