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Local and Intermediate Range Structure of Thermoelectric Ca₃Co₄O₉ TREVOR TYSON, TAO WU, TIAN YU, NJIT, MILINDA ABEYKOON, NSLS, BNL — The detailed local and intermediate range structure of thermoelectric Ca₃Co₄O₄ has been examined. X-ray absorption spectroscopy has been to explore the structure about the Co, Ca and O sites. Detailed short and intermediate structural studies by x-ray PDF measurements are used to explore the structure over a broad range of temperatures. The connection of structure with observed physical properties is discussed.

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