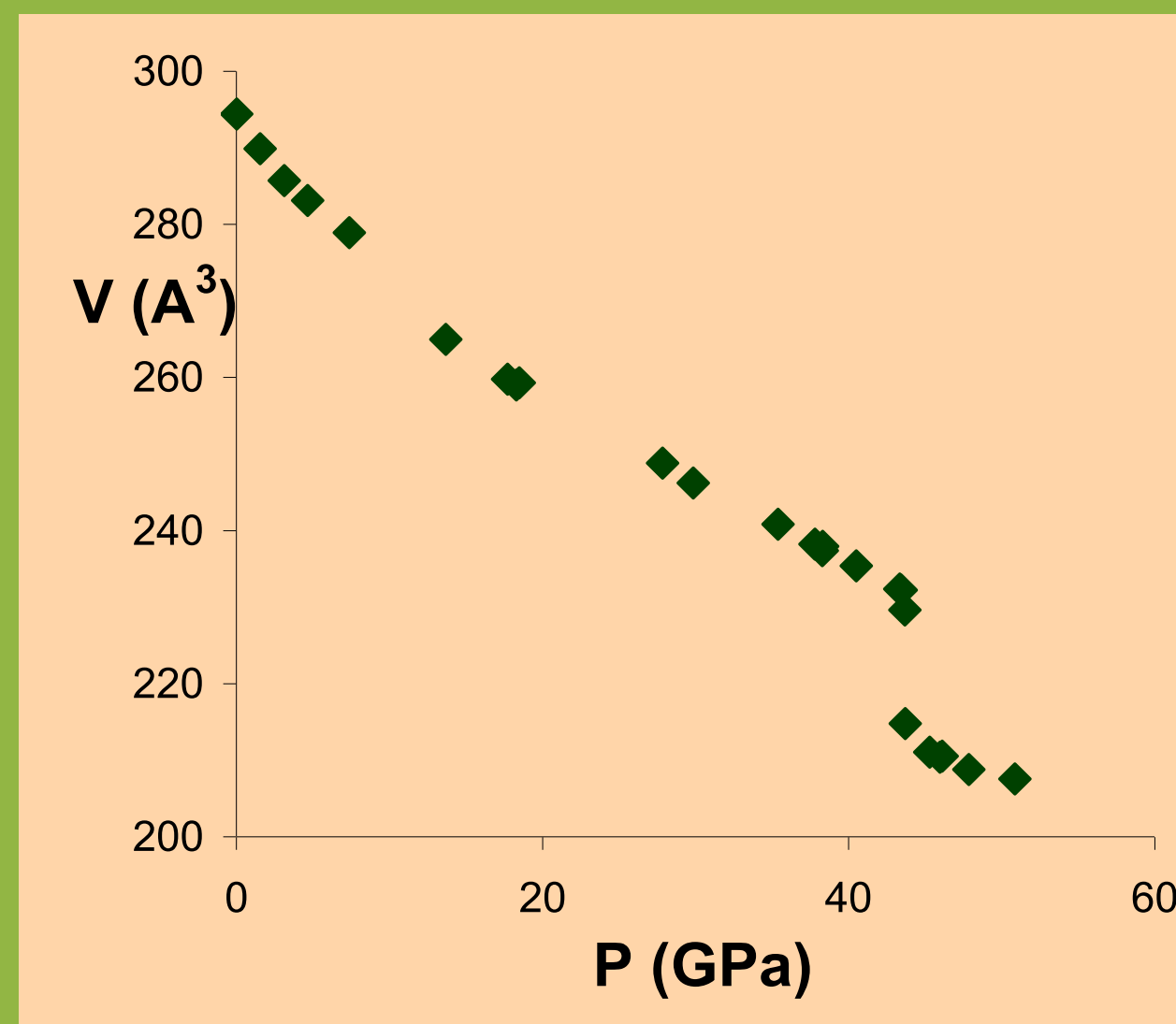


# Refinement of the structure of siderite up to 54 GPa

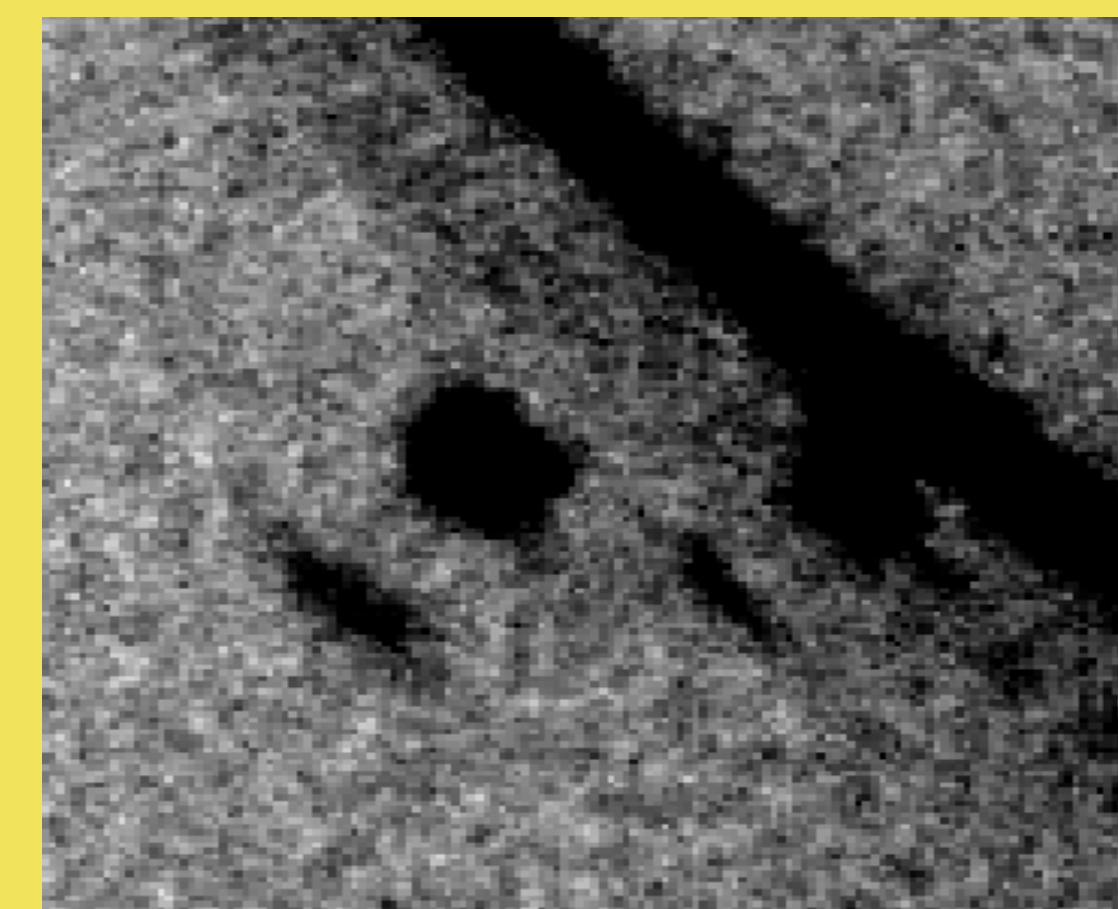
**B. LAVINA**<sup>\*1</sup>, **P. DERA**<sup>2</sup>, **R. T. DOWNS**<sup>3</sup>, **O. TSCHAUNER**<sup>1</sup>, **W. YANG**<sup>4</sup>, **G. SHEN**<sup>4</sup>, **M. NICOL**<sup>1</sup>

<sup>1</sup>HIPSEC, UNIVERSITY OF NEVADA, LAS VEGAS, USA, <sup>2</sup>GSECARS, UNIVERSITY OF CHICAGO, ARGONNE, USA, <sup>3</sup>UNIVERSITY OF ARIZONA, TUCSON, USA, <sup>4</sup>HPCAT, CARNEGIE INSTITUTION OF WASHINGTON, ARGONNE, USA

## COMPRESSIBILITY

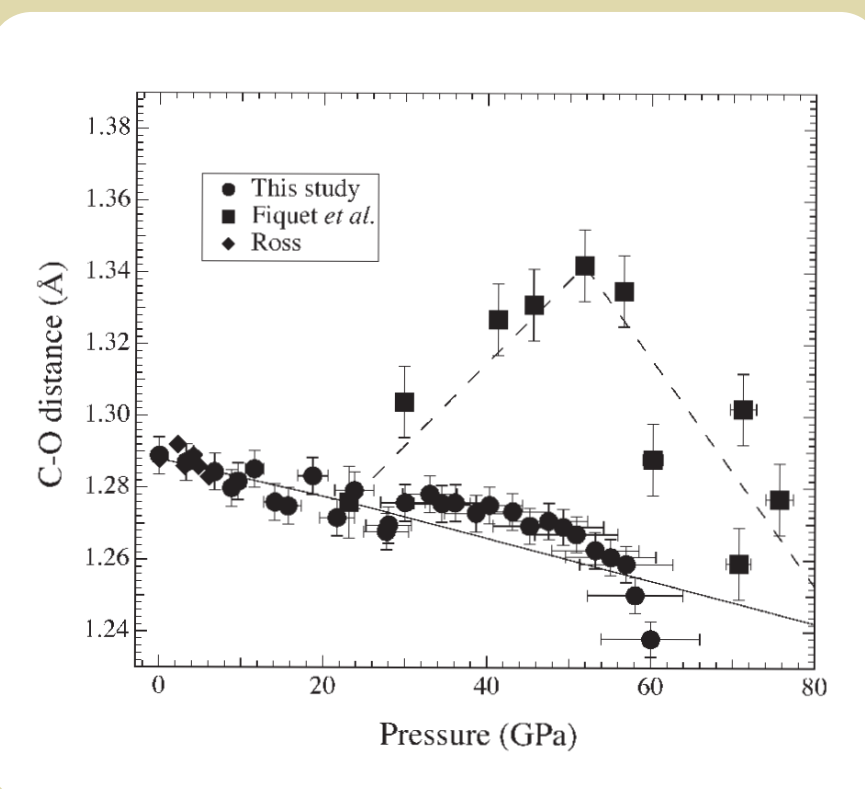


## SHARPNESS OF THE TRANSITION

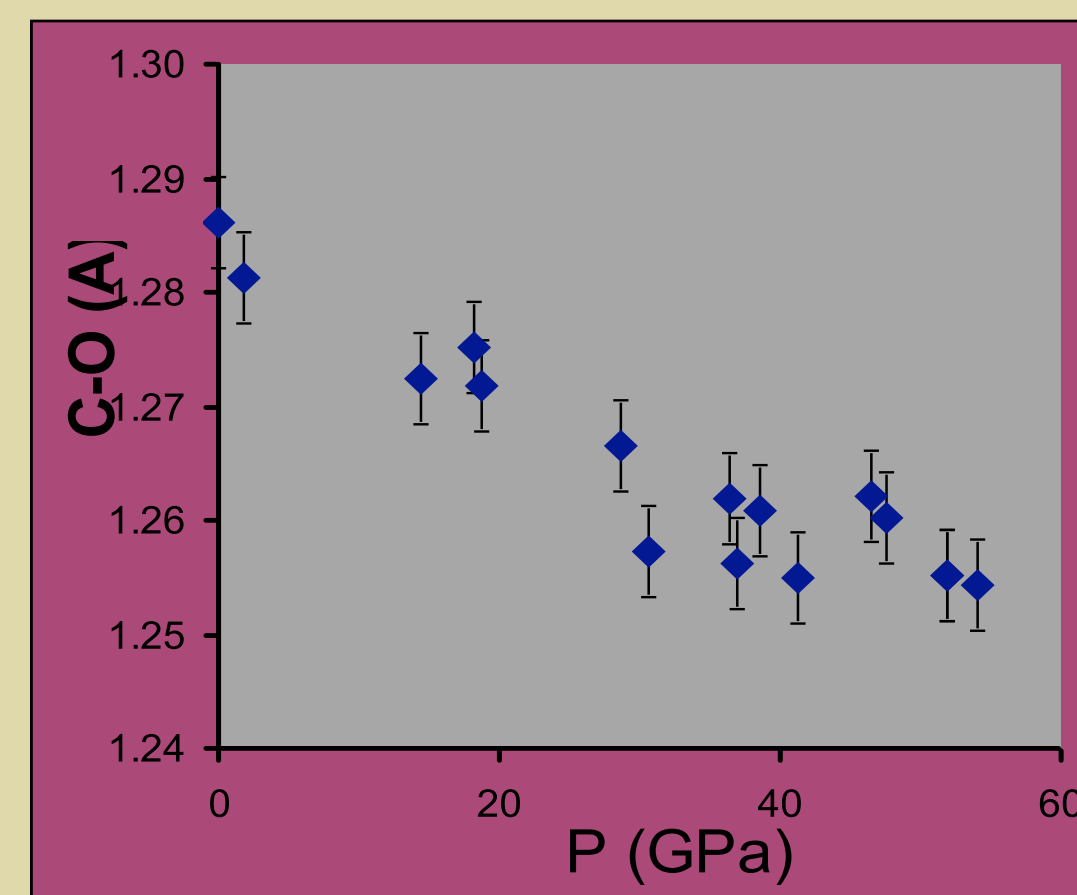


## THE C-O BOND VS P

Magnesite, PXD vs IR, Santillan et al. 2005



Siderite, this work



## OCTAHEDRAL EDGES

