

## MS28-P02 | LOCAL DIPOLE FORMATION IN IV-VI SEMICONDUCTORS

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IV-VI semiconductors exhibit a wide range of useful physical properties leading to applications as e.g. thermoelectric materials, optoelectronic materials, and much more. In the present work, the correlated local dipole formation of IV-VI semiconductors is investigated using both qualitative 3D- $\Delta$ PDF analysis and quantitative local structure refinements against the diffuse scattering intensities. Such analysis allows for a deeper understanding of these local order phenomena, which are considered to be highly correlated with the physical properties of the materials.