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ZnSe To Anthony find $b_{\text{eff}} = 0.015 \text{ eV}$ but XPS^{XPS} is 0.1 eV in ZnSe so $b_{\text{eff}} = 0.015 \text{ eV}$ is lead theory and others

conclusion: ZnSe conclusion to be untenable for all isovalent semiconductors



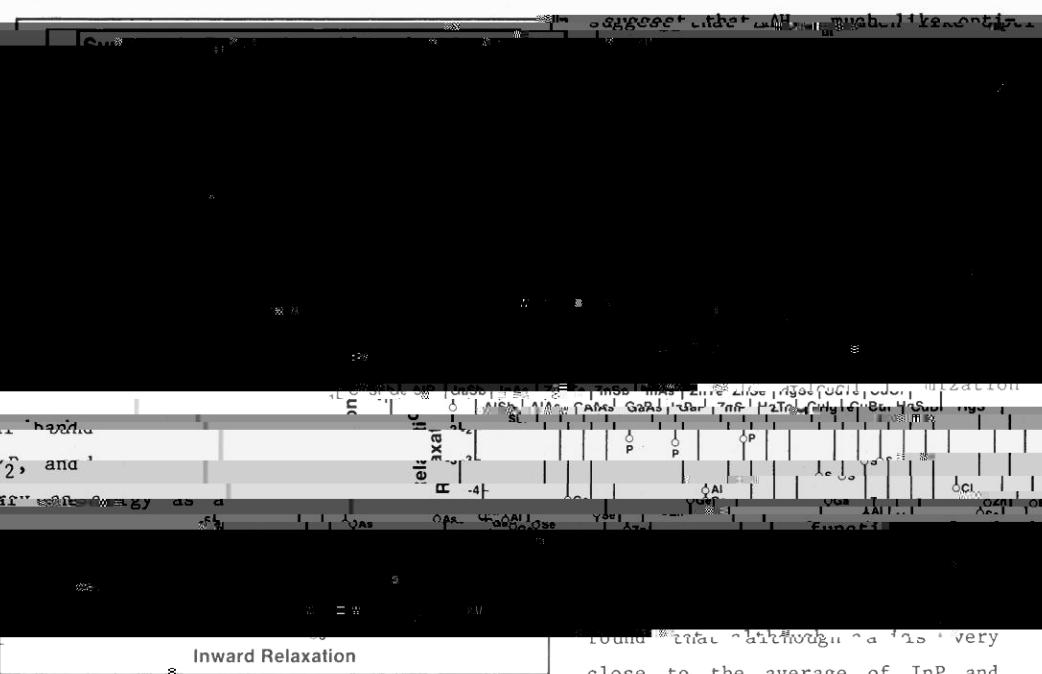


Fig. 1: Calculated¹² bond relaxation energy (eV) versus bond length (Å) for 'isovalent impurities' in semiconductors (abscissa). Asterisks denote experimental^{13,14} values.

found that although α is very close to the average of InP and

lengths $R_{\text{Ga-P}}$ and $R_{\text{In-P}}$ are substantially different from

monatomic $\text{R}_{\text{eq}} = 0.271$. Furthermore, the chalcocite arrangement was found to be substantially stabler than the zincblende arrangement: i.e. the total energy (E_T) minimization of $\text{In}_{0.5}\text{Ga}_{0.5}\text{S}_2$ at $\text{R}_{\text{eq}}=1/25$ (inital), is negative as large as