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**VENKATA RAGHU TEJ PANTANGI**, Southern University of Science and Technology

*Intersecting sets in Permutation groups.*

An intersecting set in a transitive permutation group  $G \leq \text{Sym}(\Omega)$  is a subset  $\mathcal{F} \subset G$  such that given  $g, h \in \mathcal{F}$ , there exists  $\omega \in \Omega$  with  $\omega^g = \omega^h$ . Cosets of point stabilizers are natural examples of intersecting sets. In view of the classical Erdos-Ko-Rado theorem, it is of interest to find the size of the largest intersecting set. A group is said to satisfy the EKR property if  $|\mathcal{F}| \leq |G_\omega|$ , for every intersecting set  $\mathcal{F}$ . It is known that 2-transitive groups satisfy the EKR property. We will show that general permutation groups are “quite far” from satisfying the EKR property.