MR1395952 (97a:05033) 05B07
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Reverse directed triple systems. (English summary)

Summary: “A directed triple system of order $v$ and index $\lambda$, denoted $\text{DTS}_\lambda(v)$, is said to be reverse if it admits an automorphism consisting of $v/2$ transpositions when $v$ is even, or a fixed point and $(v-1)/2$ transpositions when $v$ is odd. We give necessary and sufficient conditions for the existence of a reverse $\text{DTS}_\lambda(v)$ for all $\lambda \geq 1$.”

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