

A group of the form $2^8:O_8^+(2)$

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The group $\bar{G} = 2^8:O_8^+(2)$ is a maximal subgroup of $O_{10}^+(2)$ of index 527 and order 44590694400. The group \bar{G} has in turn two maximal subgroups $SP(6, 2)$ and $2^6:A_8$ of index 120 and 135 respectively. The two maximal subgroups of \bar{G} together with $O_8^+(2)$ are also inertia factors of $2^8:O_8^+(2)$. Using these inertia factors and orthogonality rules we construct the Fischer - Clifford matrices of $2^8:O_8^+(2)$ which together with partial character tables we use to construct the character table of $2^8:O_8^+(2)$.