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REMARK TO A THEOREM DUE TO R. SANDLER

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To prove [**2**, Theorem 1], it is enough to remark that if x is a point or line of F_4 which is fixed under H, then x is fixed under each subgroup of H. By Sylow's theorem, H has a subgroup H' of order three. By [**1**, p. 420, Lemma 2.2], it follows that x is in the subplane of F_4 generated by those elements of $\{A, B, C, D\}$ which are fixed under H'. This subplane consists of a point only. Hence, x is in $\{A, B, C, D\}$, which is impossible. This argument can be used in many other cases.

References

1. P. Dembowski, *Freie und offene projektive Ebenen*, Math. Z. *72* (1960), 410–438.
2. R. Sandler, *On finite collineation groups of* F_5, Can. J. Math. *21* (1969), 217–221.

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