

Werk

Label: Table of literature references

Jahr: 1977

PURL: https://resolver.sub.uni-goettingen.de/purl?320387429_0011|log18

Kontakt/Contact

[Digizeitschriften e.V.](#)
SUB Göttingen
Platz der Göttinger Sieben 1
37073 Göttingen

✉ info@digizeitschriften.de

such that $V_i = G$ then $V_j \triangleleft G$ implies $V_j \in F_i$. Hence $V_j \in \bigcap_{i \in I} F_i = F$. But then $V_j \leq G_F < V$, which implies $M \leq V$ a contradiction. Thus there exist some $i \in I$ such that $V_i V \not\leq G$.

(f) If $V_i V \not\leq G$ then $V_i V \in \mathcal{Y}$. Here we utilize the fact that \mathcal{Y} is a Fischer class. We have $V_i V / V_i \cong V / V_1 \cap V \in S_p$ the class of finite solvable p -groups. Also $V_i \triangleleft G$ implies $V_i \in \mathcal{Y}$ and $V_i \leq \text{core}_G(V_i V)$. Hence $V_i V / \text{core}_G(V_i V) \in S_p \subseteq N$ implies $V_i V \in \mathcal{Y}$.

Finally, since V is an F -injector of $V_i V$ and by the induction hypothesis, we have V normal in $V_i V$. But $V \in F_i$ and V_i is the F_i -injector of $V_i V$, so $V \leq V_i$ a contradiction of (b) and the theorem is proven.

REFERENCES

- [1] Blessenohl, D. and Gaschutz, W. *Über normale Schunck und Fittingklassen*, Math. Zeit. 118, (1970), 1-8.
- [2] Cossey, J. *Products of Fitting Classes*. Math. Zeit. 141 (1975), 289-295.
- [3] Fischer, B., Gaschutz, W. and Hartley, B. *Injektoren endlicher auflösbarer Gruppen*, Math. Zeit. 102, (1967), 337-339.

- [4] Hartley, B. On Fischer's dualization of formation theory, Proc. London Math. Soc. (3), 19, (1969), 193-207.
- [5] Huppert, B. Endliche Gruppen I, Berlin: Springer-Verlag (1967).

*Northern Kentucky University
Highland Heights, Kentucky 41076*

*University of Cincinnati
Cincinnati, Ohio 45221*

(Recibido en junio de 1976).

