Corrigendum to “Free Planes III”

IDEN, ODDVAR

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In (3) and the proof of (3) $N\mathfrak{F}_{2n-4}((D_n)\theta)$ should be replaced by the normal subgroup K of $N\mathfrak{F}_{2n-4}((D_n)\theta)$ which induces the inner automorphisms on $(D_n)\theta$. K is of finite index in $N\mathfrak{F}_{2n-4}((D_n)\theta)$ and the collineations in $G\mathfrak{F}$ which induce the external automorphisms on $(D_n)\theta$ form a set of coset representatives for K in $N\mathfrak{F}_{2n-4}((D_n)\theta)$.

A more natural substitute for (3) can be stated in the following way:

Let E_n be the normal extension of $F_{\left[\frac{n-3}{2}\right]}$ by Φ_n , the multiplicative group of primitive residues modulo n , which is given by

$$n_{1,i}^\rho = n_{1,r} n_{1,i}^{-1}, \quad i=2, \dots, \left[\frac{n-3}{2}\right], \quad n \geq 5$$

where ρ is the automorphism induced upon $F_{\left[\frac{n-3}{2}\right]}$ by $r \in \Phi_n$. If C_n is the cyclic group of order n , then it follows from the proof of (3) and Theorem 4.6 p. 90 in [1] that there is an exact sequence

$$0 \rightarrow C_n \xrightarrow{\delta} N\mathfrak{F}_{2n-4}((C_n)\delta) \rightarrow E_n \rightarrow 0.$$

References

1. Huppert, B.: Endliche Gruppen I. Berlin-Heidelberg-New York: Springer 1967.

c. r. Oddvar Iden
Matematisk Institutt, Avd. A
Universitetet i Bergen
Allégt. 53–55
Bergen, Norwegen

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