Erratum to
“Cohomology sets inside arithmetic groups”
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by

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In the paper [K] the following inaccuracy happened to escape my attention. On page 30 in the second paragraph of Section 2, I maintain that a matrix $\theta$ of order $e$ in $\text{GL}_n(\mathbb{Z})$ with $n = \varphi(e)$ has to be a root of the cyclotomic polynomial $\Phi_e$. This apparently is false if $e$ is not the power of a prime number. E.g. there is an integral $8 \times 8$-matrix of order 20 having fourth and fifth roots of unity as eigenvalues.

As I point out in the first paragraph of Section 2, I am interested in the case where $\theta$ acts irreducibly on $\mathbb{Q}^n$. This further condition clearly leads to the assertion $\Phi_e(\theta) = 0$ and vice versa.

Therefore, in Section 2 (and most notably in the statement and proof of Theorem 2.3), phrases like “element of order $e$” or “matrix of order $e$” should be replaced by “zero of $\Phi_e$”.

References


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