## CARL FAITH

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# CORRECTION TO "GALOIS EXTENSIONS"

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§4 of [1] is devoted to the question of the existence of a normal basis of a certain Galois extension  $\Re/\mathfrak{F}$ . Theorem 2 of this section is incorrectly stated. It can be corrected by replacing the condition (3) the centralizer  $\mathfrak{F}'$  of  $\mathfrak{F}$  in  $\Re$  is simple by the condition (3') the subring  $V(\mathfrak{G})$  generated by all regular  $x \in \mathfrak{R}$  effecting inner automorphisms belonging to  $\mathfrak{G}$  is simple. Simplicity of  $V(\mathfrak{G})$  (rather than simplicity of  $\mathfrak{F}'$ ), together with the original conditions (1) and (2), implies the equality  $V(\mathfrak{G}) = \mathfrak{F}'$  which is used in the proof. With this understanding the original proof becomes valid. I am grateful to H. Tominaga for pointing this out (in a letter), and for a reference to his paper [2] in which the results of [1] are extended to primary rings. (Cf. another paper [3] by him in connection with [1] and [2].)

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