ERRATA

ERRATUM TO "AUTOMORPHISMS OF POLYNOMIAL SEMIGROUPS"

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There is an obvious error in my note "Automorphisms of polynomial semigroups", Semigroup Forum 1(1970), 279-281. If V is a vector space of dimension greater than one then the polynomial automorphisms of V need not be affine. E.g., let $f(x_1)$ be an arbitrary polynomial of x_1 . Define

$$f_1(x_1, x_2) = x_1$$

$$f_2(x_1, x_2) = f(x_1) + x_2.$$

Then (f_1, f_2) is a polynomial automorphism of V (provided $\dim V = 2$) which need not be affine — this fact is well known. Since the structure of the group of polynomial automorphisms of V is far from being established for $\dim V > 1$ (especially for $\dim V > 2$), the results of my note are true in full only for $\dim V = 1$.

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