## ERRATUM TO "GENERIC ALGEBRAS"

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The proof of Theorem 4 of my paper, Transactions **275** (1983), 497–510, is invalid. At least part of the theorem is true; the first paragraph of the proof proves what it claims, and the second paragraph, with the following lemma, proves that these rings R cannot be right artinian.

By definition, the Zariski topology of a module has for a closed subbasis the flats (translates of submodules). The finite topology of a product of modules  $M_{\alpha}$  has for a closed subbasis the translates of submodules containing the kernels of projections upon finite partial products.

LEMMA. A product of artinian modules is compact in the finite topology.

PROOF. By Alexander's Lemma, it suffices to show that a family  $\Sigma$  of subbasic closed sets with f.i.p. has a common point; by Zorn's Lemma, we may assume  $\Sigma$  is maximal. In the product module  $\Pi M_{\alpha}$ , the  $\alpha$ th coordinate projections of members of  $\Sigma$  form a filter base of nonempty flats, which must have a least element  $B_{\alpha}$  since  $M_{\alpha}$  is artinian. (A descending sequence of flats, translated to contain 0, would still be descending.) For any point  $b_{\alpha}$  of  $B_{\alpha}$ , " $x_{\alpha} = b_{\alpha}$ " defines a subbasic closed set meeting every element of  $\Sigma$ . By maximality it is in  $\Sigma$ . Then all the (finitely defined) elements of  $\Sigma$  contain the point  $(b_{\alpha})$ .

REMARK. The product is the inverse limit of the finite partial products and the projection maps are closed, but this is not enough; to see that, blow up a nonisolated point of a compact Hausdorff space to an inverse mapping system of surjections of nonempty sets, taken as closed discrete, with empty limit.

The paper also contains four typographical errors: page 507, line 2 from bottom,  $R^{\omega}$  should be the coproduct  $\omega R$  (twice); page 508, line 21 from bottom,  $\beta(\alpha^1)$  should be  $\beta(x^1)$ ; page 509, line 8, insert = after  $r_n$ .

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