Correction to: Membership Criteria and Containments of Powers of Monomial Ideals

Huy Tài Hà¹ · Ngo Viet Trung²

Received: 5 July 2021 / Published online: 23 August 2021

© Institute of Mathematics, Vietnam Academy of Science and Technology (VAST) and Springer Nature Singapore Pte Ltd. 2021

Correction to: Acta Mathematica Vietnamica

<https://doi.org/10.1007/s40306-018-00325-y>

This corrigendum provides a correction to the definition of $\rho_{\inf}$ which was given in [1, p. 128]. The correct definition of this invariant is as follows.

Definition 0.1 Let I be a homogeneous ideal. Set

$$\rho_{\inf}(I) = \inf \left\{ q \mid I^{(h)} \subseteq I^k \text{ whenever } \frac{h}{k} \geq q \right\}.$$

Recall that

$$\rho(I) = \sup \left\{ \frac{h}{k} \mid I^{(h)} \not\subseteq I^k \right\}.$$

With this definition of $\rho_{\inf}(I)$, the observation that $\rho(I) \leq \rho_{\inf}(I)$ on [1, p. 128] and [1, Corollary 3.6] are true as stated.

Acknowledgements We thank Brian Harbourne and Arvind Kumar for pointing out the mistake in our original definition of $\rho_{\inf}$.

The original article can be found online at <https://doi.org/10.1007/s40306-018-00325-y>.

✉ Ngo Viet Trung
nvtrung@math.ac.vn

Huy Tài Hà
tha@tulane.edu;
<http://www.math.tulane.edu/~tai/>

¹ Department of Mathematics, Tulane University, 6823 St. Charles Ave., New Orleans, LA 70118, USA

² International Centre for Research and Postgraduate Training, Institute of Mathematics, Vietnam Academy of Science and Technology, 18 Hoang Quoc Viet, Hanoi, Vietnam

References

1. Hà, H.T., Trung, N.V.: Membership criteria and containments of powers of monomial ideals. *Acta Math. Vietnam.* **44**, 117–139 (2019)

Publisher's Note Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.