

Gorenstein weak global dimension is symmetric

Sergio Estrada

Universidad de Murcia, Murcia, Spain

a joint work with

Lars Winther Christensen¹ & Peder Thompson²

¹ *Texas Tech University, Lubbock, U.S.A.*

² *Norwegian University of Science and Technology, Trondheim, Norway*

Abstract

The notion of weak global dimension is well-known to be a left-right symmetric invariant. A widely held conjecture, formally stated by Bennis, asks whether or not this is also the case for the Gorenstein counterpart. We settle this conjecture on the positive and present several applications of it.

Keywords Gorenstein global dimension, Gorenstein weak global dimension, Gorenstein flat dimension.

References

- [1] L. W. Christensen, S. Estrada and P. Thompson, Gorenstein weak global dimension is symmetric, to appear in *Math. Nachr.* arXiv:2103.09703.