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1003-16-674 **Gennady Puninski*** (puninskiy.1@osu.edu), 435 Galvin Hall, 4240 Campus Drive, Lima, OH
45804. *Bands of domestic string algebras*. Preliminary report.

A better understanding of band combinatorics of domestic string algebras is crucial for any progress towards Ringel's program to classify indecomposable pure injective modules over such algebras.

In [1] Ringel proved that every arrow of a domestic string algebra A is a starting arrow for at most one band over A .

We prove the following result.

Theorem. *Let B be a band of a domestic string algebra. Then B has at most double self-intersections.*

This result plays a crucial role in a forthcoming proof that the Krull–Gabriel dimension of any 1-domestic string algebra is finite.

References

- [1] C.M. Ringel, Some algebraically compact modules. I, pp. 419–439 in: Abelian Groups and Modules, A. Facchini, C. Menini eds., Kluwer, 1995.

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