

On the finiteness of certain factorization invariants

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To study factorization problems in rings and monoids, we introduce a concept of minimal factorization that helps to counter blow-up phenomena triggered, for example, by the presence of non-trivial idempotent factors. As it happens in the classical theory of factorization, it is possible to associate these minimal factorizations with an assortment of invariants that measure their non-uniqueness. In this talk we discuss some finiteness results for such invariants, focusing in particular on minimal elasticity.

References

- [1] L. Cossu, S. Tringali, On the finiteness of certain factorization invariants, preprint (2023).
- [2] L. Cossu, S. Tringali, Factorization under local finiteness conditions, J. Algebra 630 (2023), 128-161.