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BÖRÖCZKY CONFIGURATIONS AND SHORT HISTORY OF PROBLEM OF CERTAIN CONTAINMENT

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In the talk we will present short history of few counterexamples of containment relation between symbolic and ordinary powers of homogeneous ideals. Construction of an example of the Böröczky configuration will be presented and few conclusions will be provided.

1. *Dumnicki M., Szemberg T., Tutaj-Gasińska H.* Counterexamples to the $I^{(3)} \subset I^2$ containment // *J. Algebra.* – 2013. – 393. – P. 24-29.
2. *Furedi Z., Palasti I.* Arrangements of lines with a large number of triangles // *Proc. Amer. Math. Soc.* – 1984. – 92 (4). – P. 561-566.
3. *Lampa-Baczyńska, M., Szpond, J.* From Pappus Theorem to parameter spaces of some extremal line point configurations and applications // arxiv:1509.03883, 2015, to appear in *GeometriaeDedicata*.