

ON THE TORSION OF BRIESKORN MODULES OF HOMOGENEOUS POLYNOMIALS

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ABSTRACT. Let $f \in \mathbb{C}[X_1, \dots, X_n]$ be a homogeneous polynomial and $B(f)$ be the corresponding Brieskorn module. We describe the torsion of the Brieskorn module $B(f)$ for $n = 2$ and show that any torsion element has order 1. For $n > 2$, we find some examples in which the torsion order is strictly greater than 1.

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