Cox-Gorenstein Algebras

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We study G-graded Artinian algebras having Poincaré duality and their Lefschetz properties. We prove the equivalence between the toric setup and the G-graded one. We prove a Hessian criterion in the G-graded setup. We provide an application to toric geometry. We propose a question about Jordan types.

(Joint with U. Bruzzo, R. Holanda, W. Montoya.)