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Title:	Hilbert Series and Stanley-Reisner rings
Authors:	Kumar, Naveen (/jspui/browse?type=author&value=Kumar%2C+Naveen)
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Abstract:	The main purpose of the thesis entitled 'Hilbert Series and Stanley-Reisner rings' is to understand Stanley-Reisner rings and its applications. We study Stanley- Reisner rings in order to solve combinatorial problems associated to simplicial com- plexes with the help of commutative algebra. The thesis also includes results from a paper of Eagon-Reiner which characterizes Stanley-Reisner rings k[Δ] having linear resolutions in terms of Cohen-Macaulayness of Alexander dual Δ_*. The paper of Eagon-Reiner also gives explicit computations of the Betti numbers of a Stanley-Reisner ring k[Δ] under some mild conditions on Δ.
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