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Cohen-Macaulay Toric Rings Arising from Finite Graphs. Preliminary report.

Let G be a finite graph and $k[G]$ its associated toric ring. In this talk, we will show how the structure of G affects invariants related to the minimal free resolution of $k[G]$. In particular, using homological methods and the Auslander-Buchsbaum formula, we will determine when $k[G]$ is Cohen-Macaulay. (Received August 25, 2011)