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22904. *Binomial edge ideals and graph connectivity*. Preliminary report.

In this talk we will discuss the quotient of a polynomial ring R by a binomial edge ideal J_G associated to a simple graph G . Specifically, a relation between the depth of R/J_G and the vertex-connectivity of G . We will also compute the graph toughness of G , when R/J_G is a Cohen-Macaulay ring (Received February 14, 2016)