1113-13-172   **Arindam Banerjee** and **Luis Nunez-Betancourt*** (`lcn8m@virginia.edu`). *Graph*
                     Connectivity and Binomial Edge Ideals. Preliminary report.

We study the quotient of a polynomial ring R by a binomial edge ideal $\mathcal{J}_G$ associated to a simple graph G. Specifically, we give a relation between the depth of $R/\mathcal{J}_G$ and the vertex-connectivity of G. We also compute the graph toughness of G, when $R/\mathcal{J}_G$ is a Cohen-Macaulay ring. (Received August 20, 2015)