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**Arindam Banerjee\***, ab4cb@virginia.edu. *Title: Linear Resolutions Of Monomial Ideals Related To Graphs.*

Abstract: This talk will discuss several classes of monomial ideals related to finite simple graphs which have linear minimal free resolutions. A special emphasis will be on the graphs whose complements do not have any induced four cycle . We will discuss some recent developments and some open problems. (Received September 11, 2014)