COHEN-MACAULAY GRAPHS

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In my talk, I will give an introduction to Cohen-Macaulay rings and Cohen-Macaulay property of one-dimensional simplicial complexes or simply graphs. I will also explain the classification of Cohen-Macaulayness of graphs given by Villarreal for tree graphs and afterward by J. Herzog, T. Hibi, and X. Zheng for chordal graphs in their paper "Cohen-Macaulay Chordal Graphs". I will also discuss the main theorem in their paper for Cohen-chordal graphs.

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