

Stanley-Reisner Rings - III.
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We begin by introducing a "nice" class of simplicial complexes which are called shellable. Furthermore, we classify all the shellable bipartite graphs; they are precisely sequentially Cohen-Macaulay. We also prove that shellable simplicial complex is Cohen-Macaulay over any field. The talks will broadly follow the relevant parts of the fifth chapter of Cohen-Macaulay rings by Bruns and Herzog.

Pre-requisites :
Familiarity with previous talks in the series and ring theory.