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## **Squarefree Monomial Ideals with Maximal Depth**

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Let  $K$  be a field and  $S = K[y_1, \dots, y_n]$  be the standard graded polynomial ring over  $K$ . Let  $M$  be a finitely generated graded  $S$ -module. We say  $M$  has maximal depth if there is an associated prime  $\mathfrak{p}$  of  $M$  such that  $\text{depth } M = \dim S/\mathfrak{p}$ . In this talk, we study squarefree monomial ideals which have maximal depth. Cycle graphs, transversal polymatroidal ideals and high powers of connected bipartite graph with this property are classified.