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*Linear Strands of (initial ideals of) Determinantal Facet Ideals.*

In this talk, we will discuss results relating to the linear strand of an arbitrary determinantal facet ideal (DFI). We compute Betti numbers of these strands for initial ideals of DFIs with respect to any diagonal term order. This allows us prove a conjecture of Ene, Herzog, and Hibi on Betti numbers of closed binomial edge ideals in some special cases. We conclude with a generalization of a result by Herzog, Kiani, and Madani for a more general class of DFIs. (Received January 14, 2021)