

1030-13-238

Alberto Corso and **Uwe Nagel*** (uwenagel@ms.uky.edu), Department of Mathematics,
University of Kentucky, 715 Patterson Office Tower, Lexington, KY 40506-0027. *Specializations of
Ferrers ideals.*

Two very common classes of graphs, namely Ferrers graphs and threshold graphs, have similar properties. This is remarkable as Ferrers graphs are bipartite, whereas threshold graphs are typically not bipartite. We show that the similarity between these graphs extends to algebraic properties of their edge ideals and that it has a natural explanation. To this end we introduce a specialization technique. In particular, it allows us to describe explicitly a cellular minimal free resolution of various ideals including any strongly stable and any squarefree strongly stable ideal whose minimal generators have degree two. (Received August 03, 2007)