

1106-VN-1794

Jennifer Diemunsch* (jennifer.diemunsch@ucdenver.edu), **Michael Ferrara**, **Sogol Jahانبekam** and **James Shook**. *Extremal Theorems for Degree Sequence Packing*.

A sequence $\pi = (d_1, \dots, d_n)$ is graphic if there is a simple graph G with vertex set $\{v_1, \dots, v_n\}$ such that the degree of v_i is d_i . Two graphic sequences $\pi_1 = (d_1^{(1)}, \dots, d_n^{(1)})$ and $\pi_2 = (d_1^{(2)}, \dots, d_n^{(2)})$ pack if there exist edge-disjoint n -vertex graphs G_1 and G_2 such that for $j \in \{1, 2\}$, $d_{G_j}(v_i) = d_i^{(j)}$ for $i \in \{1, \dots, n\}$. In this talk, we will present two new extremal results on graphic sequence packing. In particular, we give degree sequence analogues to the widely-studied Bollobás-Eldridge-Catlin conjecture for graph packing as well as a degree sequence version of the classical graph packing theorem of Sauer and Spencer. (Received September 15, 2014)