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Joshua Hallam* (hallamjo@msu.edu), **Jeremy L Martin** and **Bruce E Sagan**. *Increasing Forests*. Preliminary report.

Let G be a graph on the totally ordered vertex set $\{1, 2, \dots, n\}$. We call a subtree of G increasing if the vertices along any path starting at its minimum vertex increase. Additionally, we say a spanning forest is increasing if each component of the forest is an increasing tree. In this talk we will discuss properties of the generating function for increasing spanning forests. Time permitting, we will also consider a generalization of this work to simplicial complexes. (Received January 18, 2015)