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**Sven Hermann, Anders Jensen, Michael Joswig and Bernd Sturmfels\***  
(bernd@math.berkeley.edu), Department of Mathematics, Berkeley, CA 94720. *How to draw tropical planes.*

The tropical Grassmannian parameterizes tropicalizations of linear spaces, while the Dressian parameterizes all planes in  $\mathbb{TP}^{n-1}$ . We study these parameter spaces and we compute them explicitly for  $n \leq 7$ . Planes are identified with matroid subdivisions and with arrangements of trees. These representations are used to draw pictures. (Received August 30, 2008)