Sven Hermann, Anders Jensen, Michael Joswig and Bernd Sturmfels*
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The tropical Grassmannian parameterizes tropicalizations of linear spaces, while the Dressian parameterizes all planes in $\mathbb{T}P^{n-1}$. 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)