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James Davis, Patricia Hersh* (plhersh@ncsu.edu) and **Ezra Miller**. *Fibers in total positivity*. Preliminary report.

I will discuss efforts to understand the inverse image of a point under a fundamental map from Lie theory. It is conjectured that this is a regular CW complex homeomorphic to a ball. Subword complexes and the nerve lemma play a role in this story. (Received August 23, 2013)