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Thomas Lam* (tfylam@math.harvard.edu), Harvard University, Dept. of Mathematics,
Cambridge, MA 02138, and **Pavlo Pylyavskyy**. *Total positivity for loop groups*.

I will discuss a theory of total positivity for the formal loop group $GL_n(\mathbb{C}((t)))$. For the case $n = 1$, the theory reduces to the classical theory of totally positive functions and the Edrei-Thoma theorem. For $n > 1$, new phenomena occur, including a notation of “braid limits” for Coxeter groups. (Received January 21, 2009)