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**Holly Mandel** and **Oliver Pechenik\***, Department of Mathematics, University of Michigan,  
Ann Arbor, MI 48109. *Orbits of plane partitions of exceptional Lie type.*

We study the dynamics of the rowmotion action of Brouwer and Schrijver on plane partitions over minuscule posets of exceptional Lie type. We resolve some cyclic sieving conjectures of Rush and Shi (2013) by using ideas of Dilks, Pechenik and Striker to relate these dynamics to a  $K$ -theoretic analogue of Schützenberger’s promotion action on linear extensions of posets. (Received September 23, 2017)