

1145-05-1692      **Nicole Yamzon\*** ([nyamzon2@illinois.edu](mailto:nyamzon2@illinois.edu)). *Toric Ideals of Tiling Spaces*. Preliminary report. Consider the set of all domino ( $2 \times 1$ ) tilings of an  $(m \times n)$  rectangle. How can we move from one tiling to another? In 1990 William Thurston proved that the set of two-dimensional domino tilings are connected by flips. We will provide an analogous proof of Thurston's result by using the language of toric ideals. (Received September 23, 2018)