1110-57-103   **Hugh N Howards*** (`howards@wfu.edu`), Department of Mathematics, Wake Forest University, Winston Salem, NC 27109, and **Andrew Kobin**. *The dual of a mosaic.* Preliminary report.

Lomonaco and Kauffman introduce a standard system of knot mosaics as a model of physical quantum states. The mosaic number of a knot is the smallest integer m such that the knot can be represented on an $m \times m$-mosaic. Although thin position does not translate directly into mosaics we develop a related concept called the dual of a mosaic and use it to bound mosaic number. (Received February 13, 2015)