

1164-13-98

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*Minimal Free Resolutions of Domino Ideals.*

Domino ideals are square-free monomial ideals whose minimal generators represent tilings of dominos. We show how their minimal free resolutions are determined by an encoding of domino monomials with certain combinatorial properties. Specifically we look at domino ideals from tilings of  $2 \times n$  rectangles and  $2 \times n$  Möbius bands, applying and generalizing splitting techniques of Eliahou and Kervaire. (Received January 14, 2021)