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Competitive Tiling.

Competitive tiling consists of two players, a tile set, a region, and a non-negative integer d . Alice and Bob, our two players, alternate placing tiles on the untilted squares of the region. They play until no more tiles can be placed. Alice wins if at most d squares are untilted at the end of the game, and Bob wins if more than d squares are untilted. For given regions and tile sets we are interested in the smallest value of d such that Alice has a winning strategy. We call this the game tiling number. In this talk we focus on finding the game tiling number for the game played with dominoes on $2 \times n$ rectangles, modified $2 \times n$ rectangles, and rectangular annular regions. (Received September 17, 2013)