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Department, Emory University, Atlanta, GA 30322. *A problem about tilings of  
squares*. Preliminary report.

I will discuss the following problem: given a combinatorial triangulation of the unit square, what are the possibilities for the areas of the triangles? The goal is to generalize a 1970 theorem of Monsky that it is impossible to tile a square with an odd number of triangles of equal areas. (Received September 26, 2006)