Alex Eustis and Mark Shattuck
Combinatorial Proofs of Some Formulas for $L_{m}^{r}$,
Fibonacci Quart. 48 (2010), no. 1, 62-67.

## Abstract

We provide combinatorial proofs of some formulas for the power of a Lucas number which as far as we know have only been proven using other methods. We achieve this by introducing a new kind of object we call a bracket into the usual square-and-domino tiling model.

