## 1171-05-52 Alex McDonough\* (amcd27180gmail.com), 911 Arthur St., Davis, CA 95616. A Family of Sandpile Multijections.

Traditionally, the sandpile group is defined on a graph and the Matrix-Tree Theorem says that this group's size is equal to the number of spanning trees. An extension of the Matrix-Tree Theorem gives a relationship between the sandpile group and bases of an orientable arithmetic matroid. I provide a family of combinatorially meaningful maps between these two sets which I call "Sandpile Multijections". This generalizes a bijection given by Backman, Baker, and Yuen and extends work by Duval, Klivans, and Martin. (Received August 06, 2021)