1105-52-226 **William E Wood*** (bill.wood@uni.edu), Department of Mathematics, University of Northern Iowa, Cedar Falls, IA 50614. *Cube Tilings and Discrete Extremal Length in Dimension $n > 2$.*

Extremal length is a conformal invariant that transfers naturally to the discrete setting, giving square tilings as a natural combinatorial analog of two-dimensional conformal mappings. We explore recent work generalizing these ideas to n-dimensional cube tilings, including a look at what happens as we move from the plane, some conditions for tilability, and computational questions. (Received September 21, 2014)