



# Discrete $p$ -Modulus and Orthodiagonal Maps

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This project is joint work with Nathan Albin, Joan Lind and Pekka Pankka. Our goal is to approximate planar  $p$ -capacity (or continuous  $p$ -modulus) in topological rectangles using discrete  $p$ -modulus defined on an approximating orthodiagonal map. To that end, I will first introduce the planar  $p$ -capacity problem we are interested in and then I will give an overview of the theory of  $p$ -modulus on finite graphs, describing various notions of duality, and establishing its relation to the discrete  $p$ -Laplacian and to non-linear flows.

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