

Texas Tech University. Analysis Seminars.

# Discrete Harmonic Functions

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**Room: MATH 012. Time: 4:00pm.**

**ABSTRACT.** It is well known that the real and imaginary parts of analytic functions must be harmonic. We will describe a generalization of harmonic functions to weighted graphs and show that the real and imaginary parts of discrete analytic functions defined by circle packings are discrete harmonic. We will extend these results to discrete quasiconformal functions.