

1176-35-187

Wesley Hamilton* (hamilton@math.utah.edu), 155 SOUTH 1400 EAST, JWB 233, Salt Lake City, UT 84112. *The Dirichlet-to-Neumann operator and data.*

The Dirichlet-to-Neumann (DtN) operator has seen applications in inverse problems, in which a charge is applied to the boundary of a domain and the resulting charge is used to infer properties of the interior medium. In this talk I'll present recent work adapting the DtN to graphs with boundary, and what the resulting operators can tell us from a data perspective. (Received January 22, 2022)