1011-39-363Andreas L. Ruffing* (ruffing@ma.tum.de), Department of Mathematics, Munich University of
Technology, Boltzmannstrasse 3, D-85747 Garching, Germany, and Maria Meiler. Discrete
Diffusion Equations. Preliminary report.

The similarity solution of the classical diffusion equation plays a major role in analysis and mathematical physics. we present its discrete analog on a time scale in two variables. (Received August 30, 2005)