1113-35-310 **Patrick Guidotti*** (`gpatrick@math.uci.edu`), 340 Rowland Hall, Department of Mathematics, Irvine, CA 92697. *Numerical Analysis in a Box.*

In this talk a method will be described to simulate boundary value problems on general domains contained in a periodic bounding box on a regular grid discretization of the latter. The procedure will mimic analytical considerations and make the structure of the kernels involved apparent along with a natural way to handle them numerically. (Received August 25, 2015)