1070-26-20 **Pan Liu*** (liupan@wpi.edu), WPI 100 Institute RD, Mailbox 3608, Worcester, MA 01609. *A Two-Dimensional Polya-Type Map Filling a Pyramid.*

We construct a family of Pólya-type volume-filling continuous maps from a rectangle onto a solid pyramid. The family is indexed by a parameter p between 1 and $+\infty$ which gives the equation of the base of the pyramid as $||x||^p + ||y||^p \le 1$. We extend to these maps the differentiability results obtained by Peter Lax for the Pólya map and we study the limits as $p \to 1$ and $p \to \infty$. (Received January 28, 2011)