

1116-41-1244 **Jeff Ledford*** (jpledford@vcu.edu). *Polyhyperbolic Cardinal Splines*. Preliminary report.

In this talk we discuss solutions of differential equation $(D^2 - \alpha^2)^k u = 0$ on $\mathbb{R} \setminus \mathbb{Z}$, which we call polyhyperbolic splines. We develop the fundamental function of interpolation and cover various properties related to these splines. (Received September 18, 2015)