Colloquium

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Friday, October 2, 2015 at 3 pm in Bell Hall 143

Generalized Trigonometric functions and bases in L^p space

Generalized trigonometric functions \sin_p and \cos_p generalize the familiar trigonometric functions and coincide with them when p=2, and otherwise have important similarities to and differences from their classical counterparts. As will be shown they play an important part in both the theory of the p-Laplacian and that of the Hardy operator. Particular attention is paid to the basis properties of the analogues of the sine functions in the context of Lebesgue spaces.