JAVAD MASHREGHI, Laval University

Approximation by modified Taylor polynomials

It is known that the sequence of Taylor polynomials may diverge in the local Dorochlet spaces. However, the sequence of Fejer means is a good remedy and it converges to the initial function in the norm. Another possibility is to modify the last term of Taylor polynomials and create a convergent sequence. We study this phenomenon as an orthogonal projection to the subspace of polynomials of degree at most $n$. 