

SOME HERMITE-BIRKHOFF SPLINE INTERPOLATION

Petru BLAGA

0. Summary. It is considered an interpolating Hermite-Birkhoff problem of a given function by polynomial spline of degree  $2m+1$ . The spline interpolation is constructed such that it interpolates the derivatives of function up to the order  $m$  at the knots of a uniform partition and the values of function at the ends.

Following particular results obtained in [2,3] the even-degree case was treated in [1].

Construction, existence, and uniqueness are given for the spline interpolation function.