

On simultaneous density Order from shift invariant subspaces in Sobolev spaces

CH. BOUKEFFOUS, A. SAN ANTOLÍN

Departamento Matemática Aplicada, Universidad de Alicante

bc61@gcloud.ua.es

Abstract: Our research focuses on the study of approximation properties for closed shift-invariant subspaces in Sobolev space. The concept of simultaneous approximation order, developed by K. Zhao in [1], is a key focus of this research. The notion of simultaneous density order is introduced, which is motivated by the definition of density order. The classical notion of approximate continuity point is needed to characterize simultaneous density order.

References

- [1] K. Zhao. Simultaneous approximation from PSI spaces (1995). *J. Approx. Theory* 81, no. 2, 166–184.