Analysis Seminar

"Boundedness of Lebesgue Constants and Existence of Interpolating Faber Bases"

By

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Abstract: First, we introduce the concept of Lagrange interpolation, examine the asymptotic behavior of Lebesgue constants that correspond to some significant system of interpolatory nodes in the interval and go over some divergence results. Then we see the relevance of interpolating Faber bases (polynomial basis of strict degrees of a functional space) to boundedness of Lebesgue constants (corresponding to the same interpolatory system), see results of existence or non-existence of such bases in the space of continous functions on compact sets C(K), for different compact subsets of the real line.

Date: Tuesday, September 29
Time: 15:00 – 16:00

To request the event link, please send a message to goncha@fen.bilkent.edu.tr