Peak Value Problem

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The problem of finding an upper bound for the infinity norm of signals from their samples is called Peak Value Problem. The Peak Value Problem is a significant problem related to e.g. Orthogonal Frequency Division Multiplexing (OFDM) which has application in wireless networks and mobile communications. In this talk, we will first answer a question related to this problem where the sampling set is the zeros of a $\pi$-sine-type function. Then we will address a related question where the sampling set only requires a bound on the maximum distance between two consecutive sampling points.