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Polynomial inequalities via random processes and interpolation

We will discuss variants of the Kahane-Salem-Zygmund inequalities for the expectation of the supremum norm of homogeneous Bernoulli polynomials on the unit ball of a Banach space. We combine ideas from stochastic processes and interpolation methods to control increments of a Rademacher process in an Orlicz space via entropy integrals.
The talk is based on a joint work with R. Szwedek.