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Constructive polynomial approximation

Let X be a function space. Here are two problems about polynomial approximation in X : (1) Are polynomials dense in X ? (2) If so, then, given $f \in X$, can we find explicit polynomials p_n that converge to f in X ? In this talk, I shall discuss some recent work on the second type of problem. (Joint with Javad Mashreghi and Pierre-Olivier Parisé).