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Akos Magyar* (amagyar@uga.edu), Department of Mathematics, 1023 D. W. Brooks Drive,
Athens, GA 30602. *Discrete harmonic analysis and pointwise ergodic theorems.*

We will discuss new developments in pointwise ergodic theory associated to polynomial averages both in the commutative and the nilpotent case. We will also discuss their connections to discrete harmonic analysis, analytic number theory and in the multi-linear case some recent results in additive combinatorics. (Received January 24, 2022)