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Equidistribution speed towards Green measures and currents

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Let f be a holomorphic endomorphism of a complex projective space. We study the action by pullback of the iterates of f on forms and currents. It is known from the work of Dinh-Sibony that they equidistribute towards the Green currents of f and that the speed of equidistribution is exponential when tested against Hölder continuous observables. Recently, as a key tool for the statistical study of the Green measure, Bianchi-Dinh proved that the speed is still exponential when tested against suitable log-Hölder continuous functions, which have regularity exponentially weaker than Hölder. In this talk, I will give an overview of these results and present a generalisation to forms and currents of any degree. A version of the result also holds for automorphisms of compact Kaehler manifolds.

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