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   Sommario/riassunto "This memoir is an interval dynamics counterpart of three theories
                      founded earlier by the authors, S. Smirnov and others in the setting of
                      the iteration of rational maps on the Riemann sphere: the equivalence
                      of several notions of non-uniform hyperbolicity, Geometric Pressure,
                      and Nice Inducing Schemes methods leading to results in
                      thermodynamical formalism. We work in a setting of generalized
                      multimodal maps, that is smooth maps f of a finite union of compact
                      intervals I in R into R with non-flat critical points, such that on its
                      maximal forward invariant set K the map f is topologically transitive
                      and has positive topological entropy. We prove that several notions of
                      non-uniform hyperbolicity of f|K are equivalent (including uniform
                      hyperbolicity on periodic orbits, TCE & all periodic orbits in K
                      hyperbolic repelling, Lyapunov hyperbolicity, and exponential shrinking
                      of pullbacks). We prove that several definitions of geometric pressure P
                      (t), that is pressure for the map f|K and the potential - t log |f|, give the
                      same value (including pressure on periodic orbits, "tree" pressure,
                      variational pressures and conformal pressure). Finally we prove that,
                      provided all periodic orbits in K are hyperbolic repelling, the function P

(t) is real analytic for t between the "condensation" and "freezing" parameters and that for each such t there exists unique equilibrium (and conformal) measure satisfying strong statistical properties"--