The eventual paracanonical map of an irregular variety.

I will report on joint work with. M.A. Barja (UPC, Barcelona) and L. Stoppino (Universita' dell'Insubria, Italy)

Given a map $a : X \longrightarrow A$ from a smooth projective variety to an abelian variety and a line bundle L on X, we study the "eventual" behaviour of the linear system $|L|$ under base change with the d-th multiplication map $A \longrightarrow A$. We prove a factorization theorem stating, roughly speaking, that the correponding map stabilizes for d large and divisible enough.

When X is of general type, A is the Albanese map and L is the canonical bundle, we obtain the so-called "eventual paracanonical" map, which is a new geometrical object intrinsically attached to X.

REFERENCES: arXiv: 1606.03301, arXiv: 1606.03290

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