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Title: *On some families of Jacobians with definite quaternionic multiplication*

Abstract: Let A be an abelian variety over a number field. The connected monodromy field of A is the minimal field over which the image of the ℓ-adic torsion representations have connected Zariski closure. We show that for all even $g \geq 4$, there exist infinitely many geometrically nonisogenous abelian varieties A over $\mathbb{Q}$ of dimension g where the connected monodromy field is strictly larger than the field of definition of the endomorphisms of A. Our construction arises from explicit families of hyperelliptic Jacobians with definite quaternionic multiplication. This is joint work with Victoria Cantoral-Farfan and Davide Lombardo.