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Symplectic maps to projective spaces and symplectic invariants

of

Denis Auroux

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Abstract: After reviewing recent results on symplectic Lefschetz pencils and symplectic branched covers of $\mathbb{C}P^2$, we describe a new construction of maps from symplectic manifolds of any dimension to $\mathbb{C}P^2$ and the associated monodromy invariants. We also show that a dimensional induction process makes it possible to describe any compact symplectic manifold by a series of words in braid groups and a word in a symmetric group.

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