

Holomorphic one forms on projective surfaces and applications

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In the talk I present a result, recently proven in collaboration with F.Favale and G.P.Pirola, that aims to recover holomorphic 1-forms on smooth projective surfaces from divisors contracted to points by big and semiample line bundles. I'll then discuss its application to investigate holomorphic forms on higher dimensional varieties (e.g. the moduli space of pointed curves $\mathcal{M}_{g,n}$) and related open problems.