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On subfields of the function field of a general surface in $\mathbb{P}^3$

In this talk, we treat dominant rational maps from a very general surface X of degree ≥ 5 in $\mathbb{P}^3$ to smooth projective surfaces Y. Based on the classification theory of algebraic surfaces, Hodge theory, and deformation theory, we show that there is no dominant rational map from X to Y unless Y is rational or Y is birational to X. I will also discuss on rational maps from the product of two very general curves. It is a joint work with Gian Pietro Pirola.