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Patricio I Gallardo* (pgallardo@math.sunysb.edu), Mathematics Department Stony Brook University, 100 Nicolls Rd, Stony Brook, NY 11794-3651. *On the moduli space of quintic surfaces.*

By drawing an analogy with the moduli space of curves of genus three. We describe the role of geometric invariant theory and birational geometry in the compactification of the moduli space of smooth quintic surfaces. In particular, we discuss the interplay between non log canonical singularities and boundary divisors. (Received July 25, 2013)