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Isomonodromic deformations and Stability

One considers isomonodromic deformations of bundles with connection over a Riemann surface. When the underlying surface is a Riemann sphere with marked points, one has a nice link to representations into matrix groups when the bundle is trivial. One can ask whether generic deformations take one into this trivial locus. In other genera, one of the analogues of triviality of the bundles in genus zero is the notion of stability; we examine how deformations and stability interact. (Joint with Indranil Biswas and Viktoria Heu.)