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On the isomonodromic deformations of linear systems of ODEs with resonant irregular singularities

The talk is devoted to the isomonodromic deformations of linear meromorphic differential systems with Fuchsian and irregular singularities. These systems are allowed to have resonant irregular singularities. In such case deformation form may have some additional members and these deformations are similar to non-Schlesinger deformations of Fuchsian systems. We discuss the general view of the deformation differential form and provide an estimation of the form poles orders in the case of irregular resonant singularities of a special type. In the talk we also give corresponding examples.