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On a geometric notion associated with linear differential equations of Okubo normal form

In the talk, we would like to introduce a geometric notion called “flat structure (without metric)” associated with linear differential equations of Okubo normal form. Our formulation is based on two key ingredients: “discriminant locus” and “space of Okubo-Saito potentials”. Also, we would like to explain how the flat structure is related to the global behavior (i.e. monodromy data) of solutions to a linear differential equation taking the Gauss hypergeometric equation (and transcendental solutions to the Painlevé VI equation if time permits) for examples.