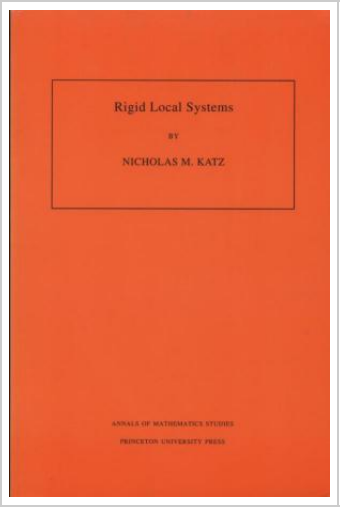

Rigid Local Systems. Annals of Mathematical Studies. No. 139. ISBN Annals of Mathematical Studies. No. 139.

By Nicholas M. Katz.

Princeton University Press, 1995. Soft cover. Book Condition: New. New 9 x 6 softcover - no flaws. 219 Pages. References. Online tracking is provided for buyers in the United States. ---------- SUMMARY: Riemann introduced the concept of a "local system" on P1- nearly 140 years ago. His idea was to study nth order linear differential equations by studying the rank n local systems (of local holomorphic solutions) to which they gave rise. His first application was to study the classical Gauss hypergeometric function, which he did by studying rank-two local systems on P1- . His investigation was successful, largely because any such (irreducible)local system is rigid in the sense that it is globally determined as soon as one knows separately each of its local monodromies. It became clear that luck played a role in Riemann's success: most local systems are not rigid. Yet many classical functions are solutions of differential equations whose local systems are rigid, including both of the standard nth order generalizations of the hypergeometric function, nFn-1's, and the Pochhammer hypergeometric functions. This book is devoted to constructing all (irreducible) rigid local systems on P1- and recognizing which collections of independently given local monodromies arise as the local...

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