SOLVABILITY OF GENERALIZED HAMILTONIAN SYSTEMS II : TRANSVERSALITY AND GENERIC GHS

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In the first lecture, we observe the simplest case where the rank of the matrix of the linear equation is constant. In order to consider the case where the rank of the matrix of the linear equation is not constant, we introduce a transversality theorem and the notion of {\it generic} generalized Hamiltonian systems. Generic generalized Hamiltonian systems are generic in the sense that any GHS can be approximated by a generic GHS and a generic GHS remains generic under small perturbations.

In this talk we observe solvability of generic generalized Hamiltonian systems.