



AVVISO di SEMINARIO

Si avvisano gli interessati che il giorno 15-7-2015, alle ore 11:00, nella Sala Riunioni (Aula 18) del DiMIE, il Prof. Francesco Oliveri del Dipartimento di Matematica e Informatica dell'Università di Messina, terrà un seminario sul tema:

*“Equazioni a derivate parziali del primo ordine: simmetrie, equivalenza e disaccoppiamento”*  
(*“First order partial differential equations: symmetries, equivalence and decoupling”*)

Abstract:

Systems of first order partial equations with the aim of identifying classes of equivalent ones (up to invertible point transformations) are considered, In particular, necessary and sufficient conditions are established in order to map a general nonautonomous and nonhomogeneous quasilinear first order system of partial differential equations to a quasilinear autonomous and homogeneous one. Also, the necessary conditions in order to map a nonlinear first order system to quasilinear autonomous and homogeneous form are given. Both results are obtained in the framework of Lie group analysis of differential equations, and some examples are provided. Finally, a general result concerned with the decoupling problem of a hyperbolic system of first order quasilinear partial differential equations is given.

Potenza, 9 luglio 2015

*Il Direttore del Dipartimento*  
(*Prof. Onofrio Mario Di Vincenzo*)

