Title: Rank 2 prolongations of second order PDE and geometric singular
solutions

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Abstract: In this talk, we study geometric structures of rank 2 prolongations
of implicit second order PDEs (i.e. partial differential equations) for two
independent one dependent variables. Moreover, by using properties of these
prolongations, we discuss geometric singular solutions of PDEs from a view
point of contact geometry of second order. This is joint work with Kazuhiro
Shibuya.