Nonlinear ODE in Complex Form

Particular solutions of the Hamiltonian system H_n

2014 - 07 - 21 (Mon.)
15:00 - 16:30
308, Mathematics Research Center Building (ori. New Math. Bldg.)

If the parameters in the Painleve equation PVI satisfy certain conditions, then PVI has particular solutions expressed in terms of the Gauss hypergeometric function. In this talk we will consider that under certain conditions on parameters, the Hamiltonian system H_n has solutions expressed in terms of Lauricella's hypergeometric functions in n variables. The reference is Section 3.9 in the book "From Gauss to Painlev'e: a modern theory of special functions".