Area Seminar

Title	Three dimensional scattering of NN potential Argonne V18 without partial waves.
Date and Time	19/07/2012 16:00:00
Speaker	Saravanan Veerasamy Ohio Univ. USA
Area	Theoretical Physics
Venue	Room No. 469
Abstract	The formalism for solving the Lippmann-Schwinger equation in momentum space without partial waves, the new symbolic techniques developed for the analytical treatment of spin degrees of freedom are discussed in the seminar. A realistic NN potential Argonne V18 is used for the computation. The numerical techniques developed for efficient computation of Argonne V18 NN potential in momentum space is also discussed. Finally, the scattering observables computed in this method is presented and compared to calculations using partial waves.