ÇANKAYA UNIVERSITY
FACULTY OF ARTS AND SCIENCES
DEPARTMENT OF MATHEMATICS

SEMINAR

A new generalized exponential rational function method for solving nonlinear partial differential equations

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DATE : **26 March, 2019**

TIME : **14:15**

PLACE : **Çankaya University (Central Campus), R-213**

The present paper suggests a novel technique to acquire exact solutions of the nonlinear partial differential equations. The main idea of the method is to generalize the exponential rational function method. In order to examine the ability of the method, we consider some nonlinear Schrodinger-type equation (R-NLSE). Many variants of exact soliton solutions for these equations are derived by the proposed method. Physical interpretations of some obtained solutions is also included. One can easily conclude that the new proposed method is very efficient and finds the exact solutions of the equation in a relatively easy way.

All interested are cordially invited.

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