ÇANKAYA UNIVERSITY
FACULTY OF ARTS AND SCIENCES
DEPARTMENT OF MATHEMATICS

SEMINAR

"MHD PROBLEMS in 2-D and 3-D FLOW GEOMETRIES"

SPEAKER : Prof. Dr. Fatma AYAZ
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TIME : 15:00

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

ABSTRACT : Magnetohydrodynamics, also called MHD, is the physical mathematical framework that concern the Dynamics of magnetic fields in electrically conducting fluid. Here, we investigate the MHD flow problems for different flow geometries in terms of different flow parameters. Therefore, 2-D MHD flow through parallel plates and 3-D MHD flow through parallel disks with the presence of heat transfer effects have been solved by using Differential Transform method, which is an algebraic way for obtaining Taylor series coefficients of an analytical function. Then, the obtained results have been plotted and analyzed for different flow parameters.

All interested are cordially invited.

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