У ПЕТАК , 23. НОВЕМБРА 2007. године са почетком у 11.,00 часова
у Лабораторији за експерименталну механику – 307.

Академик РАДУ МИРОН

одржаће предавање под називом

Lagrangian and Finslerian Mechanics of Nonconservative Mechanical Systems

Kratak sadržaj: In this paper we extend the geometric investigation of nonconservative mechanical systems, using the associated evolution nonlinear connection. We show that the evolution nonlinear connection is uniquely determined by two compatibility conditions with the metric structure and the symplectic structure of the Lagrange space, [3]. The covariant derivative of the Lagrange metric tensor with respect to the evolution nonlinear connection is a second rank symmetric tensor, which uniquely determines the symmetric part of the connection. The difference between the symplectic structure of the Lagrange space and the almost-symplectic structure of the nonconservative mechanical system is the force tensor introduced by Klein [5], and used recently by Miron The force tensor, which is the vertical differential of the external force, uniquely determines the skew-symmetric part of the evolution nonlinear connection. T