## Quintessence arising from Modified Gravity

A. Fazacas

University of Bucharest, Department of Physics, Romania

In physical cosmology, dark energy is a hypothetical form of energy which permeates all off space and has strong negative pressure. According to the theory of relativity, the effect of such a negative pressure is qualitatively similar to a force acting in opposition to gravity at large scales. Dark energy might arise from the particle-like excitations in some type of dynamical field, referred to as quintessence. In cosmology, quintessence is a real form of energy distinct from any normal matter or radiation, or even "dark matter". In this poster we used two types of frames: Jordan frame and Einstein frame and we want to see how omega (the cosmological constant) varies in those two frames for three species: radiation, cold dark matter, with her densities and the rotational scalar field (quintessence). For this we use the conformal transformation and two equation: Fridmann equation and equation of motion.