

Abstract Submitted
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A New Solution for Einstein Field Equation in General Relativity

SADEGH MOUSAVI — There are different solutions for Einstein field equation in general relativity that they have been proposed by different people the most important solutions are Schwarzschild, Reissner Nordstrom, Kerr and Kerr Newmam. However, each one of these solutions limited to special case. I've found a new solution for Einstein field equation which is more complete than all previous ones and this solution contains the previous solutions as its special forms. In this talk I will present my new metric for Einstein field equation and the Christofel symbols and Richi and Rieman tensor components for the new metric that I have calculated them by GR TENSOR software. As a result I will determine the actual movement of black holes which is different From Kerr black hole's movement. Finally this new solution predicts, existence of a new and constant field in the nature (that nobody can found it up to now), so in this talk I will introduce this new field and even I will calculate the amount of this field. **SADEGH MOUSAVI**, Amirkabir University of Technology.

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