

A NONLINEAR PARTIAL DIFFERENTIAL EQUATION RELATED WITH CERTAIN SPACES WITH GENERAL CONNECTIONS (III)

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Abstract. From a Minkowski-type metric on R_+^n satisfying the Einstein condition, we derived a nonlinear partial differential equation. We tried to get some numerical approximate solution with certain boundary conditions by the finite element method in [10]. Regarding the exact solution, we shall give a fundamental theorem, which tells us the above numerical approximate solution is not worth to using the word “approximate”.

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