

Dedicated to Professor Iulian Corion on his 60th anniversary

THE CONNECTION BETWEEN THE RELATIVISTIC EQUATION OF THE HYDROSTATICAL BALANCE AND THE u^0 COMPONENT OF THE SPACE-TIME QUADRI-VELOCITY

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Abstract. In this paper a connection is established between the equation of the hydrostatical balance and the variation of the u^0 component inside a massive body with a spherical symmetry - where the relativistic effects are not negligible.