

In our new picture, there is no coordinate system [that] is inertial everywhere, i.e. in which $d^2x^i/d\tau^2 = 0$ for every particle for which $d\tilde{U}/d\tau = 0$. Therefore we have to allow all coordinates on an equal footing.

Bernard Schutz, §7.3

It might help to tackle the supplementary problems first, see §7.2 below.

7.1 Exercises

7.1 (i) If

$$(nU^\alpha)_{;\alpha} = q R, \quad \text{Schutz Eq. (7.3)} \quad (7.1)$$

were the correct generalization of Schutz Eq. (7.1), $(nU^\alpha)_{;\alpha} = 0$, to a curved spacetime, how would you interpret it? (ii) What would happen to the number of particles in a co-moving volume of fluid, as time evolves? (iii) In principle, can we distinguish experimentally between

$$(nU^\alpha)_{;\alpha} = 0, \quad \text{Schutz Eq. (7.2)} \quad (7.2)$$

and eqn. (7.1)?

Solution

(i) Recall that in the hypothetical eqn. (7.1) q was some constant and R the Ricci scalar. Based on kinematics, this equation states that, for $q > 0$ there would be a source of particles for positively curved space $R > 0$. This was shown in the solution to Exercise 4.20(a) above, which interpreted the divergence of the four-vector $N = n\tilde{U}$ as the rate of generation of particles per unit volume. If (qR) were negative there would be a sink of particles. Curvature of spacetime would somehow create or destroy particles.

(ii) What would happen to the number of particles in a co-moving volume of fluid, as time evolves?

First Course In General Relativity Solution Manual

Hussin A.Rothana



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300 Problems in Special and General Relativity Mattias Blennow, Tommy Ohlsson, 2021-12-09 Einstein's theories of special relativity and general relativity form a core part of today's undergraduate or Masters level physics curriculum This is a supplementary problem book or student's manual consisting of 150 problems in each of special and general relativity The problems which have been developed tested and refined by the authors over the past two decades are a mixture of short form and multi part extended problems with hints provided where appropriate Complete solutions are elaborated for every problem in a different section of the book some solutions include brief discussions on their physical or historical significance Designed as a companion text to complement a main relativity textbook it does not assume access to any specific textbook This is a helpful resource for advanced students for self study a source of problems for university teaching assistants or as inspiration for instructors and examiners constructing problems for their lectures homework or exams

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