General Relativity: Exercises 2 -Solutions

May 25, 2011

Homework 1: Foucault Pendulum

Equations of parallel transport of vector V are

$$\dot{V}^{\mu} + \Gamma^{\mu}_{\alpha\beta}\dot{x}^{\mu}V^{\rho} = 0, \qquad (1)$$

where dot means differentiation according to t. Taking Christoffel symbols for 2-speheres and choosing parametrization $t = \phi$ we obtain system of coupled differential equations

$$\dot{V}^{\phi} = \sin \theta_0 \cos \theta_0 V^{\phi} = 0,$$
 (2)
 $\dot{V}^{\phi} = \cot \theta_0 V^{\phi} = 0.$ (3)

$$V^{\phi} = \cot \theta_0 V^{\phi} = 0. \qquad (3)$$

We can solve this system by differentiating first equation according to ϕ and inserting second equation into it. We obtain differential equation of second order

$$\hat{V}^{\varphi} + \cos^2 \theta_0 V^{\varphi} = 0, \qquad (4)$$

Solution to this differential equation is given by

$$V^{\theta} = A \cos(\phi \cos \theta_0) + B \sin(\phi \cos \theta_0),$$
 (5)

where A and B are integration constants which we can determine from condition $V = (V^{\phi}, V^{\phi}) =$ (0,1) at $\phi=0$. We obtain A=1 and B=0. With knowledge of V^{φ} we can find (3) to be

$$\dot{V}^{\phi} = -\cot \theta_0 V^{\phi} = -\cot \theta_0 \cos(\phi \cos \theta_0),$$
 (6)

which can be easily integrated and thus we obtain final solution

$$V^{\theta} = \cos(\phi \cos \theta_0),$$
 (7)

$$V^{\phi} = -\frac{\sin(\phi \cos \theta_0)}{\sin \theta_0}.$$
 (8)

To find angle by which is vector rotated we need

$$\cos \alpha = \frac{V V'}{|V'| |V''|} \qquad (9)$$

where V is $V = V(\phi = 0)$ and V' is after parallel transport, i.e. $V' = V(\phi = 2\pi)$ From there we can see that after parallel transport around full circle, i.e. from $\phi = 0$ to $\phi = 2\pi$, vector V will be rotated low amade.

$$\alpha = 2\pi \cos \theta_0$$
, (10)

what is exactly angle by which Foucault pendulum will be rotated by one day. This is because motion of Foursault pendulum is inertial, i.e. is parallely transported. In one day it is parallely transported around full circle (because of rotation of Earth surface).

General Relativity Solutions To Exercises

G Orfield

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web use the concentration of calcium hydroxide to calculate the concentration of calcium ions and hydroxide ions in the solution ca oh 2 à ca 2 2oh 5 x 10 2 m calcium ions 5 x 10 2 m 2 0 m hydroxide ions calculate calcium hydroxide ksp using the

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web the chemical equation used was ca oh 2 s ca2 aq 2oh aq the solubility product was determined to be ksp ca2 oh from the titration which was made by dripping a concentrated solution of calcium hydroxide into hydrochloric acid the calcium hydroxide was filtered before starting the titration

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web jul 12 2023 because the concentration of a pure solid such as ca 3 po 4 2 is a constant it does not appear explicitly in the equilibrium constant expression the equilibrium constant expression for the dissolution of calcium phosphate is therefore k ca 3 po 3 4 2 ca 3 po 4 2

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