The atemporal Platonic world

Do not introduce Killing vector field by hand (R. Penrose). Get professional and read T. Padmanabhan:

Thus, for a single particle, the condition $\nabla mT^{mn}=0$ is equivalent to a geodesic equation. As we have already seen, the geodesic equation is capable of encoding the effect of external gravitational field on a material particle and — in general — will not lead to any conservation law. It follows that the equation $\nabla mT^{mn}=0$ describes the way material systems are influenced by external gravity and, of course, is not a conservation law either.

More from H. Bondi, H. Ohanian and L. Szabados, C. Rovelli, and J. Butterfield and C.J. Isham.

Thus, the geodesic hypothesis (read Alan Rendall here) is still a mystery, ever since the inception of GR. But instead of **solving** this mystery, the GR "experts" from LIGO wasted over **450 million EUR** for their LISA Pathfinder, only to **confirm** the existence of geodesic mystery, as known since the inception of GR.

Read p. 6 (last) in GW150914: Pink Unicorns Dancing with Red Herrings.

The fact mentioned by <u>H. Ohanian</u> "the standard form of a conservation law, $\partial T_v^\mu / \partial x^\mu = 0$, which shows that the gravitational field delivers no energy or momentum to the nongravitational matter" **ANYMORE**, is explained in my endnote <u>therein</u>. As I stressed previously, the *atemporal* **Platonic** world **cannot** have metric properties (<u>C. Rovelli</u>). If you decide to somehow eliminate the *atemporal* **Platonic** gravity, you will end up with a *physical* gravitational field, which guides (Sic!) the material particle along its timelike path. It will be like you order a pizza from the nearby restaurant (the *left-hand* side at EFE), and once it is delivered at your doorstep you bring *exactly* the same pizza in your kitchen (the *right-hand* side at EFE).

No way. Thus, the mathematical fact that GR "is consistent with the local conservation of energy and momentum" (Wikipedia) requires (not "implies") that GR is inherently requires consistent with perpetual requires (not "implies") that GR is inherently requires consistent with perpetual requires (not "implies") that GR is inherently requires requires and requires re

Check out again my endnote in <u>H. Ohanian and L. Szabados</u>. We need quantum gravity, based on the *atemporal* pregeometric **Platonic** world (pp. 5-6 in <u>colorless.pdf</u>). **It** resembles the old Aether (p. 27 in <u>zenon.pdf</u>), but is placed infinitely far away "at null infinity": no *physical* object, including a light beam, could reach **It**, ever. Thus, **It** is physically unobservable *atemporal* pregeometric **Platonic** world, which (not "Who") wraps the *entire* physical world at actual/completed infinity, up to null- and spacelike infinity. And now we can define the *entire* physical world as 'isolated system' that is isolated *from* **It**, ... and **by It**.

Read about It at p. 5 in zenon.pdf and notice the radius of the inflating balloon in Fig. B at p. 21 therein.

We have no choice but to define 'the *entire* physical world' *relationally*, but in such way that its physical, 4D spacetime can be immersed into 'something else' (C.J. Isham and J. Butterfield), called It. Otherwise we face the insoluble paradox of <u>infinite regress</u>, also known as 'turtles all the way down'. Needless to say, the **Platonic** world 'It' is a pregeometric entity residing "inside" every 4D geometric point/event *as well*.

Plato suggested **It** many centuries ago. **It** is the sole option we have to develop quantum gravity. Don't use <u>tensors</u> to model the properties of the gravitational "field". We need <u>atemporal Platonic</u> quantum-gravitational waves. If you disagree, I will leave you in the company of <u>S. Weinberg</u> and <u>R. Penrose</u>.