

Referee report: The Galilean limit of Quantum Gravity: Corrections to the Newton's Law

This is an interesting work with new results worth publishing in a scientific journal like Physical Science International Journal. However the presentation could be better. I have the following suggestions.

L. 25. "It exists the real difficulty of finding" → The real difficulty is to

L. 28. "describe a typology of events that own a quite different physical scale." → describe events of different physical scales.

L. 36. "hinders" → prevents

L. 49, L51, L52: Not comma after 2 and 3 and 4.

L. 66. Delete "where"

L. 69. "right part" → right hand part

L. 70 and L. 94. "energy-impulse tensor density" → energy-momentum density tensor

L. 69-71. This sentence concerns the limit $\hbar \rightarrow 0$. However the first equations where $\hbar$ appears is in eqs.(8) and (9). Hence this sentence should be relocated to after eq.(9).

L. 79. "motion equation" → equation of motion

L. 85. It seems that the replacement $\dot{q}_\alpha \dot{q}^\alpha \rightarrow J_\alpha J^\alpha$ should be made inside the square root.

L. 110. $(u_0, -u_\alpha) \rightarrow (u_0, -u_i)$

L.112. $\square \rightarrow \ll$

L. 135. Here it would be natural to refer to eq.(8).

L. 163. "obeys to the" → obeys the

L. 166. "." → ,

L. 176 and L. 181. "distance" → distances

L. 181. $\square \rightarrow \gg$

L. 189. $\square \rightarrow \sim$

L. 207. "for radial symmetric" → for the radially symmetric

L. 232. Comma after eq.(36).

L. 236. "deriving by" → derived from

L. 244. $\square \rightarrow \gg$. Similar for eqs. (39)-(42).

- L. 260. I have to guess here that the meaning is: “it is not” → means that it is not
- L. 263. “since the particle mass is almost all contained” → since almost all of the particle mass is contained
- L. 275. “being” → since
- L. 293. “.” After eq.(51)
- L. 294. “and hence” → Hence
- L.294. $\square \rightarrow \ll$ (two times)
- L. 300. “.” After eq.(53)
- L. 301. “that” → This
- L. 314. “is” → it is
- L. 316 and eq.(56) and (57): $\square \rightarrow \ll$
- L. 333 “being” → since
- L. 348. $\square \rightarrow \ll$
- L. 382. Remove “.”
- L. 391. Remove “for”
- L. 394. “distance” → distances
- L. 397. “.” →,
- L. 403, 410, 412, 425 and 428. $\square \rightarrow \ll$
- L. 452. “acceptation” → theory
- L. 454. “by” → of
- L. 456. “is the” → is a
- L. 459. “In presence” → In the presence
- L. 462. “function” → functions
- L. 467 and 473 $\square \rightarrow \ll$
- L. 478. “particle, respect to” → particle, with respect to
- L. 490. “that” → the
- L. 492. $\square \rightarrow \ll$

L. 494. “, at first”→, hence at first

L. 501. $\square \rightarrow <<$

L. 508. “is few”→is a few

L. 509. $\square \rightarrow <<$

L. 515. “From general”→From a general

L. 540. “coupled each other”→coupled to each other