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Consistently implementing the field self-energy in Newtonian gravity. (English)

Summary: We consider alterations to Newtonian gravity satisfying the principle that all energies contribute to the active gravitational mass. We discuss earlier attempts and point out their inconsistency with this principle. A consistent prescription is derived and discussed.

MSC:
83D05 Relativistic gravitational theories other than Einstein’s, including asymmetric field theories

Cited in 5 Documents

Full Text: DOI

References:
[1] Geroch, R., On the positive mass conjecture, () - Zbl 0174.28401

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