

ZMATH 2008a.00474

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On the possibility of identical objects in general relativity.

Math. Educ. 40, No. 3, 155-158 (2006).

Summary: Exploiting a condition which applies to the curvature tensor of every space-time with mirror symmetrical spatial sections, we show that general relativity forbids the existence of real or idealized identical objects interacting only through their gravitational fields.

Classification: M50 I90 H60 G90

Keywords: quantum mechanics; contradictions; coordinate systems; matrices; coordinate transformation; Weyl tensor; Ricci tensor; metrics with symmetries; theoretical physics; mathematical applications