

On the inverse symmetry inheritance problem: the so-called 'matter collineations'

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Work is presented on a novel (up to 1994) type of symmetry, which we called "Matter collineations", consisting spacetime maps preserving the energy-momentum tensor. Special attention is given to the Lie algebra of the generating vector fields and to its physical interpretation. Some non-trivial examples are presented, including Szekeres's space-times representing dust.