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Strengths of naked singularities in Tolman-Bondi spacetimes. (English) Zbl 0587.53063
Classical Quantum Gravity 3, 527-539 (1986).

Christodoulou's recent analysis of naked singularities [see Commun. Math. Phys. 93, 171-195 (1984)] in time-symmetric Tolman-Bondi collapse is simplified and generalized to a wider class of Tolman-Bondi models. The strengths of the naked singularities are assessed in terms of limiting focusing conditions.

MSC:

- 53C80 Applications of global differential geometry to the sciences
- 83C15 Exact solutions to problems in general relativity and gravitational theory
- 83F05 Cosmology

Cited in **33** Documents

Keywords:

naked singularities; Tolman-Bondi models

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