COMMENT

Stationary cylindrically symmetric vacuum solutions with Λ

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Received 25 January 1994

Abstract. The solutions recently published by Santos were found by this author in 1975.

PACS numbers: 0450, 0420

The author of [1] found a complete set of solutions of the Einstein equations under the following assumptions.

- (1) The metric is stationary and cylindrically symmetric.
- (2) The source term in the Einstein equations is just the cosmological term.

The definition of the task is exactly the same as in [2,3] (section 9 in [2] contains a detailed derivation and presentation, [3] contains a short description of the solutions). The results of [1] must thus be equivalent to those of [2,3] under a coordinate transformation. A positive confirmation of this statement is left as an exercise for the reader.

References

- [1] Santos N O 1993 Class. Quantum Grav. 10 2401
- [2] Krasinski A 1975 Acta Phys. Polon. B 6 223
- [3] Krasinski A 1975 J. Math. Phys. 16 125

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