



Сбирка 32

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Тема:

**CONNECTIONS WITH TOTALLY SKEW-SYMMETRIC TORSION
AND SASAKI-EINSTEIN 5-MANIFOLDS**

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(A JOINT WORK WITH ACAD. PROF. DSC STEFAN IVANOV)

Резюме: We investigate connections with totally skew-symmetric torsion on non-symmetric Riemannian manifolds that satisfy the Einstein metric condition (EMC). In particular, we establish the D-homothetic transformation between two almost contact metric manifolds. Furthermore, we prove a structure theorem for almost-nearly cosymplectic manifolds, with a particular emphasis on the 5-dimensional case. As a natural extension of this investigation, we mention the situation of the Lorentzian case.

Ръководител на семинара: проф. дмн М. Манев