



Сбирка 31

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Тема:

## SOME CONNECTIONS ON NON-SYMMETRIC RIEMANN MANIFOLDS

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**Резюме:** In this lecture, we will present some types of connections. Firstly, we will consider a connection with totally anti-symmetric torsion on non-symmetric Riemann manifolds that satisfy Einstein's metric condition. An almost Hermitian manifold is non-symmetric Riemann manifold that satisfy Einstein's metricity condition if and only if it is a Nearly Kahler manifold. We will also show what happens in the case of para Hermitian manifold, contact and para-contact manifolds that satisfy the Einstein's metricity condition. The second part of the lectures will be dedicated to semi-symmetric and projective semi-symmetric connections. The linearly independent curvature tensors and how these connections affect them will be presented.

Ръководител на семинара: проф. гмн М. Манев