

Abstract Submitted  
for the APR20 Meeting of  
The American Physical Society

**Gravitation with a non-symmetric metric tensor** RICHARD HAMMOND, North Carolina AT — General relativity with a non-symmetric metric tensor is examined. It is shown the non-symmetric part, in the weak field limit, is the potential of torsion, the origin of which is intrinsic spin. The torsion is of the string theory type, but gauge invariance is lost unless the electromagnetic field is introduced to preserve gauge invariance.

Richard Hammond  
North Carolina A  
T

Date submitted: 10 Jan 2020

Electronic form version 1.4