

1103-83-151

J Gegenberg* (geg@unb.ca), **G Kunstatter** and **S Rahmati**. *Gravitational Yang-Mills Theory Revisited.*

I will summarize recent work with Kunstatter and Rahmati on gravity as a (modified) Yang-Mills theory. This is a re-visit to an old program, but with a somewhat different focus. These theories are intrinsically torsion-full. I will primarily discuss a toy two dimensional version, displaying its solvability via Hamiltonian analysis. I will show that there is a Birkhoff Theorem, and I will comment on the coupling of matter to gravity. (Received August 18, 2014)