

MR1049710 (91c:58039) 58F05 (53C15 81T13)

Gotay, Mark J. (1-USNA)

Reduction of homogeneous Yang-Mills fields.

J. Geom. Phys. **6** (1989), *no.* 3, 349–365.

A study of the structure of the reduced phase space for a homogeneous Yang-Mills field on a spatially compactified $(n + 1)$ -dimensional Minkowski space-time is studied. In particular, it is shown that for the gauge groups $SU(2)$ and $SU(3)$ the system is equivalent to that of n interacting particles moving in $\mathbf{R}^3$ with zero total angular momentum.

Reviewed by *J. Ławrynowicz* (Łódź)

© Copyright American Mathematical Society 1991, 2009