Erratum

Mixing of all orders of Lie groups actions

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Professor Stepin has pointed out that in order for the proof of Theorem 1 to work one needs to add to the assumptions of the theorem the requirement that the center of G is finite. This additional change is required to exclude cases where the group G has a nontrivial connected compact central subgroup. In such a case the argument doesn't work as the action of the unipotent element we produce may be non-ergodic. When G has a finite center and is Ad-proper we can choose the open ball $\mathcal{W}$ (see page 238 line -9) so that the element $(h_{l+1}, h_{l+2}, \dots, h_k)$ has a *nontrivial* unipotent image under the adjoint representation and hence generates an unbounded subgroup and acts ergodically.

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