

# SEMPARIS – Séminaires en région parisienne

<http://string.lpthe.jussieu.fr/semparis/>

**TBA**

**Mardi 28 Janvier 2020, 11 :30**  
IHES, Amphithéâtre Léon Motchane  
Domaines : math

Titre : *Cartan Projections of some Nonreductive Subgroups*

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Résumé : *Let  $G$  be a real reductive Lie group and  $H$  a closed subgroup of  $G$ . According to the Benoist-Kobayashi criterion, the properness of an action on  $G/H$  is controlled by the Cartan projection of  $H$ . In this talk, we give some examples of closed subgroups that are not reductive in  $G$  but whose Cartan projection is computable (one example is an abelian horospherical subgroup of  $G$ ). Applying these nonreductive subgroups, we show that some homogeneous spaces of reductive type do not have compact Clifford-Klein forms.*

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