

# Séminaire Groupes Réductifs et Formes Automorphes

Le 24 février 2020 à 10h30 (Jussieu)

## Deligne-Lusztig duality on the stack of local systems.

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### Résumé :

In the setting of the geometric Langlands conjecture, we argue that the phenomenon of divergence at infinity on the stack of  $G$ -bundles on a smooth complete curve is controlled by the locus of semisimple local systems (for the Langlands dual group). We prove this by first introducing the Deligne-Lusztig functors (substitutes for the Serre functors, which do not make sense in our situation), and then by describing these functors explicitly. Along the way, we obtain a global geometric version of a theorem of Lusztig on the Steinberg module.