

Séminaire d'Algèbre, Topologie et Géométrie  
Jeudi 9 décembre à 15h30  
Salle II

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**Title :** *Character theory for stacks.*

**Abstract :** Given a locally constant stack  $S$  on a topological space  $X$ , its character is an equivariant locally constant sheaf on the loop space of  $X$  (in the case of  $X = BG$  for a given complex Lie group  $G$ , this is a very simple character sheaf on  $G$ ). This is defined by means of Ganter-Kapranov's categorical character applied to the 2-monodromy representations of  $S$ . In this talk I will recall the character construction and show the behavior of the 2-monodromy representation and of its character under the direct image by a Serre fibration. (Joint work with Delphine Dupont)