

Séminaire d'algèbre, géométrie et topologie  
Jeudi 5 mars à 14h  
Salle I

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IHES

*Toward the structure of large Kahler groups*

A group is sometimes called large if it surjects onto a nonabelian free group. A strong restriction on large Kahler groups is provided by the Beauville-Siu theorem, which implies that such a group must in fact surject onto the fundamental group of a compact Riemann surface. By looking at how the surface group acts on the kernel of this surjection, we get a much stronger constraint. The key point is that this representation is Hodge theoretic in nature, as I will explain.