

Séminaire d'algèbre, topologie et géométrie  
Jeudi 3 juillet à 14h  
Salle I

Steven Sam

Berkeley

*Moduli spaces of Coble hypersurfaces*

Let  $X$  be the Jacobian of a non-hyperelliptic genus 3 curve. Coble showed that the image of  $X$  under the 2Theta map in  $\mathbb{P}^7$  is the singular locus of a unique quartic hypersurface. A similar situation occurs for the 3Theta embedding of the Jacobian of a genus 2 curve in  $\mathbb{P}^8$ . I will explain an explicit parametrization of the moduli spaces of these Coble hypersurfaces in terms of representation theory and combinatorics of reflection arrangements. One benefit is the discovery of new properties of these moduli spaces; a second benefit is that the technique suggests many new situations where one can find Coble hypersurfaces.