

Anna Cadoret: **Specialization of adelic representations of  $\tilde{\pi}_1$  fundamental groups of schemes**

I will discuss the issue of specializing adelic representations of the  $\tilde{\pi}_1$  fundamental group of schemes, especially those attached to Abelian schemes and Shimura varieties. In particular, I will give applications to integral and adelic variants of the Mumford-Tate conjecture.