



Du
30
MARS.
2019

10h00
-
11h00

SÉMINAIRE BOURBAKI

Beatrice POZZETTI — Higher rank Teichmüller theories

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Let Γ be the fundamental group of a compact surface S with negative Euler characteristic, and G denote $\mathrm{PSL}(2, \mathbb{R})$, the group of isometries of the hyperbolic plane. Goldman observed that the Teichmüller space, the parameter space of marked complex structures on S can be identified with a connected component of the character variety $\mathrm{Hom}(\Gamma, G)/G$, which can be selected by means of a characteristic invariant. Thanks to the work of Labourie, Burger-Iozzi-Wienhard, Fock-Goncharov, Guichard-Wienhard we now know that, surprisingly, this is a much more general phenomenon: there are many higher rank semisimple Lie groups G admitting components of the character variety only consisting of injective homomorphisms with discrete image, the so-called higher Teichmüller theories. The richness of these theories is partially due to the fact that, as for the Teichmüller space, truly different techniques can be used to study them: bounded cohomology, Higgs bundles, positivity, harmonic maps, incidence structures, geodesic currents, real algebraic geometry... In my talk I will overview a number of recent results in the field (following Labourie, Burger-Iozzi-Wienhard, Fock-Goncharov, Guichard-Wienhard, Bonahon-Dreyer, Li, Zhang, Martone-Zhang, Bargaglia, Alessandrini-Li, Collier-Tholozan-Toulisse.)

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