ID de Contribution: **6** Type: **Invited talk**

Liouville quantum gravity on Riemann surfaces

vendredi 12 juin 2015 10:15 (45 minutes)

I will present a generic way to construct rigorously Liouville quantum field theory on Riemann surfaces with emphasis on the case of the Riemann sphere. The construction is based on Polyakov's functional integral and yield non trivial conformal field theories. Then I will explain its main properties, the relation with the uniformization theorem for 2d Riemann surfaces and relate it via precise conjectures to the scaling limit of random planar maps conformally embedded onto the Riemann sphere.

Based on joint works with F. David, Y. Huang, A. Kupiainen, H. Lacoin, V. Vargas.

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