

---

# Une dynamique de Glauber pour Liouville

Christophe Garban<sup>\*1</sup>

<sup>1</sup>ICJ, Lyon 1 – France

## Résumé

In this talk, I will discuss and analyze an SPDE which arises naturally in the context of Liouville quantum gravity. This SPDE is built to preserve the so-called Liouville measure which has been constructed recently on the two-dimensional sphere  $S^2$  and the torus  $T^2$  in the work by David-Kupiainen-Rhodes-Vargas. In its simplified form, the SPDE can be written as follows

\$\$

$\partial_t X = \frac{1}{2} \Delta X + e^{\gamma X} + \sqrt{2\pi} \xi$  *It belongs to the broad class of singular stochastic PDEs (which includes KPZ, dynamical*

---

\*Intervenant