

---

# Infinite divisibility of free stable laws

Min Wang<sup>\*1</sup>

<sup>1</sup>Laboratoire Paul Painlevé – Université des Sciences et Technologies de Lille - Lille I – France

## Résumé

The free stable laws  $X(\alpha, \rho)$  are the random variables characterized by the Voiculescu transform with stability index  $\alpha$  and asymmetry coefficient  $\rho$ . In this talk, we will prove that  $X(\alpha, \rho)$  is infinite divisible for any  $\alpha$  in  $(0, 1]$  and  $\rho$  in  $[0, 1]$ . We will further show that they are extended generalized Gamma Convolutions for  $\alpha$  in  $(0, 3/4]$  and  $\rho$  in  $[0, 1]$ . This is a joint work with Thomas Simon and Takahiro Hasebe.

---

\*Intervenant