Loewner chains and evolution families on parallel slit half-planes

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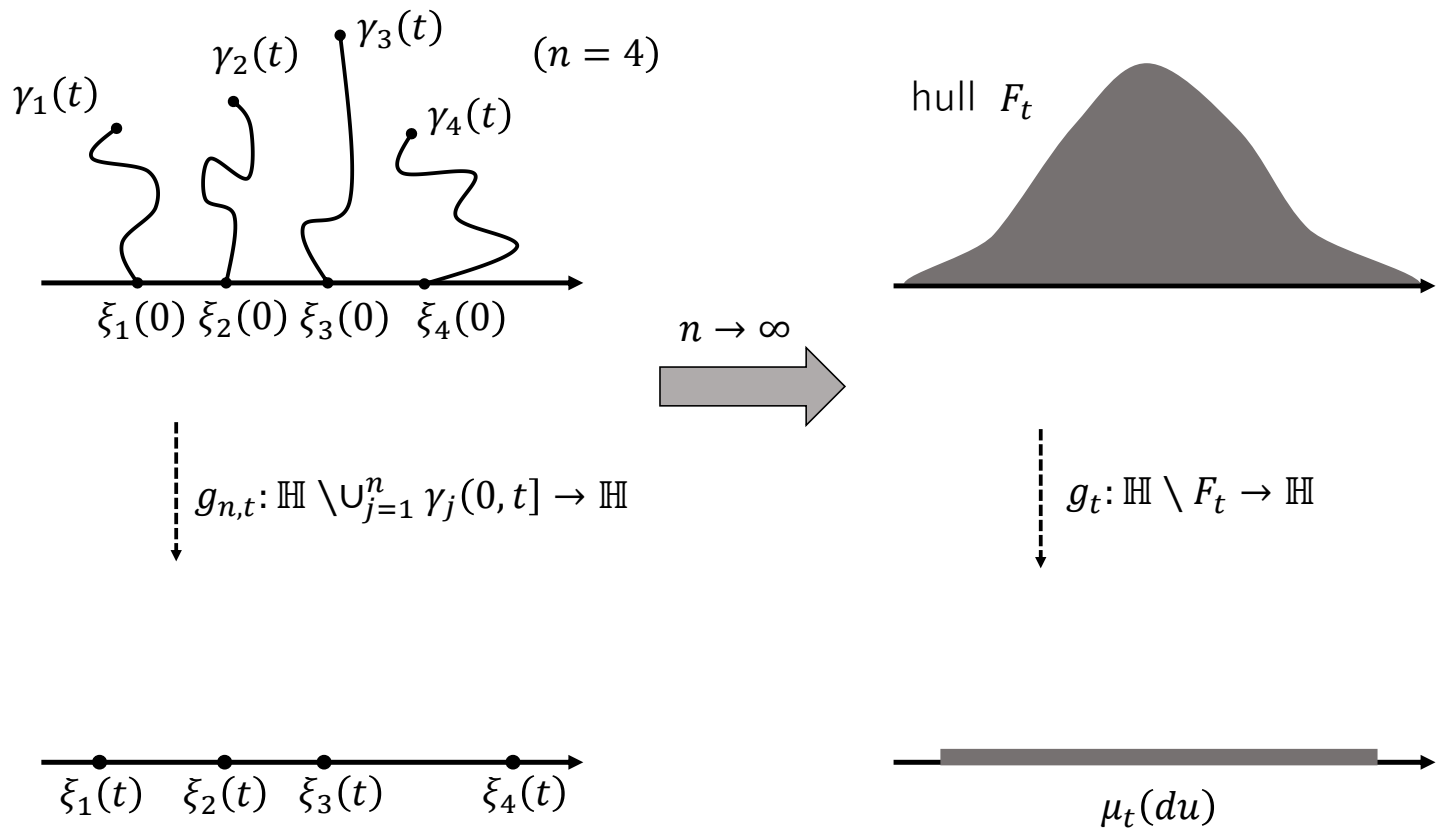
Loewner equation driven by measures

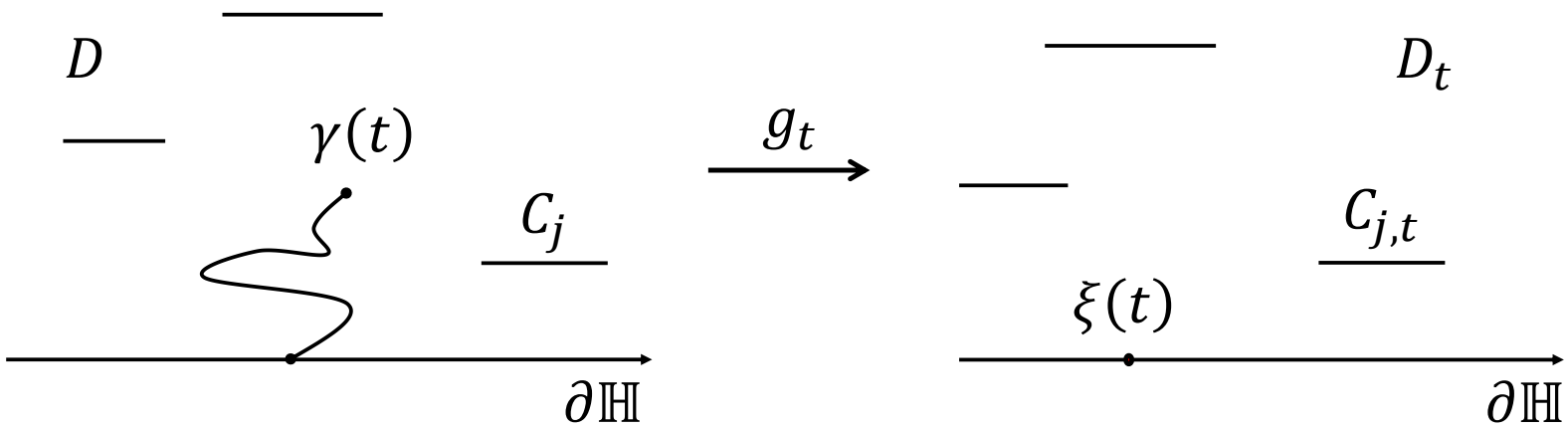
$$\frac{dg_{n,t}(z)}{dt} = \frac{1}{n}\sum_{j=1}^{n} \frac{2}{g_{n,t}(z) - \xi_j(t)}, \qquad \mu_{n,t} := \frac{1}{n}\sum_{j=1}^{n} \delta_{\xi_j(t)}$$

$$\frac{dg_t(z)}{dt} = \int_{\mathbb{R}} \frac{2}{g_t(z) - u}\, \mu_t(du), \qquad \mu_t := \lim_{n\to\infty} \mu_{n,t}$$



Komatu–Loewner equation

$$\frac{dg_t(z)}{dt} = -2\pi\Psi_{D_t}(g_t(z), \xi(t))$$



Problem

Komatu–Loewner equation driven by measures?

One hope: Multiple SLE on multiply connected domains.

cf. Jahangoshahi–Lawler (2018, arXiv)