

# ON RANDOM CONFORMAL WELDINGS

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**Abstract.** We consider a conformal welding model where the derivative of the welding homeomorphism is (roughly speaking) an exponential of a Gaussian free field. We prove the almost sure existence and uniqueness of the welding.

Also, "pathwise" continuity of the construction with respect to parameters will be considered. The talk is based on joint work with K. Astala (Helsinki), P. Jones (Yale), and A. Kupiainen (Helsinki).