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Chunqin Zhou* (cqzhou@sjtu.edu.cn), 800 Dongchuan Road, Department of Mathematics,
Shanghai, 200240, Peoples Rep of China. *Super-Liouville Equations on Closed Riemann Surfaces.*

Motivated by the supersymmetric extension of Liouville theory in the recent physics literature, we couple the standard Liouville functional with a spinor field term. The resulting functional is conformally invariant. We study geometric and analytic aspects of the resulting Euler-Lagrange equations, culminating in a blow up analysis. (Received January 23, 2011)