

1068-30-65

Zoltán M. Balogh and **Katrin Fässler*** (katrin.faessler@math.unibe.ch), Department of Mathematics, Sidlerstrasse 5, 3012 Bern, Switzerland, and **Ioannis D. Platis**. *Extremal quasiconformal mappings on the Heisenberg group*. Preliminary report.

We employ the modulus of curve families in order to identify mappings with smallest possible distortion within a given class of quasiconformal mappings on the Heisenberg group. We study both minimizers for the maximal and for a weighted mean distortion. This method can be applied to detect Heisenberg counterparts of classical extremal quasiconformal mappings in the complex plane. (Received January 11, 2011)