

QUASICONFORMAL EXTENSIONS AND  $q$ -SUBORDINATION  
CHAINS IN  $\mathbb{C}^n$

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**Abstract.** Let  $B$  be the unit ball with respect to Euclidean norm on  $\mathbb{C}^n$ . In this note we introduce the notion of a  $q$ -subordination chain defined on  $B \times [0, \infty)$  and we deduce conditions for the first element of a  $q$ -subordination chain to be extended to a quasiconformal homeomorphism of  $\mathbb{R}^{2n}$  onto itself.

**MSC 2000.** 32H, 30C45.

**Key words.** Biholomorphic mapping, Loewner differential equation, subordination, subordination chain,  $q$ -subordination chain, quasiconformal extension.

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