1062-28-47   **Jun Kigami*** (`kigami@i.kyoto-u.ac.jp`), Graduate School of Informatics, Kyoto University, Kyoto, Kyoto 606-8501, Japan. *Quaiconformal modification of metrics on self-similar sets.*

Using tne notion of scales and their gauge functions, we give a necessary and sufficient condition for metrics on self-similar sets being quasiconformal to each other. As an application, the conformal dimension of the Sierpinski carpet is no greater than $\log \frac{9+\sqrt{41}}{2} / \log 3$, which is strictly less than the Hausdorff dimension of the Sierpinski carpet, $\log 8 / \log 3$. (Received July 19, 2010)