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Ren Guo*, Vincent Hall, 206 Church St. SE, Minneapolis, MN 55455, and **Xiaobo Liu**, No.55 Zhongguancun East Road, Beijing, Peoples Rep of China. *Quantum Teichmüller space and Kashaev algebra.*

Kashaev algebra associated to a surface is a noncommutative deformation of the algebra of rational functions of Kashaev coordinates. For two arbitrary complex numbers, there is a generalized Kashaev algebra. The relationship between the shear coordinates and Kashaev coordinates induces a natural relationship between the quantum Teichmüller space and the generalized Kashaev algebra. (Received December 20, 2009)