

**Meeting:** 1005, Newark, Delaware, SS 9A, Special Session on Arithmetic Groups and Related Topics

1005-20-40      **Kai-Uwe Bux\***, Department of Mathematics, University of Virginia, P.O. Box 400137 (Kerchof Hall), Charlottesville, VA 22904-4137, and **Kevin Wortman**. *A geometric proof that  $\mathrm{SL}_2(\mathbf{Z}[t, t^{-1}])$  is not finitely presented.*

We give a geometric proof for the result of Krstić-McCool from the title. We study the action of  $\mathrm{SL}_2(\mathbf{Z}[t, t^{-1}])$  on the product of two Bruhat-Tits trees associated with  $\mathrm{SL}_2(\mathbf{Q}(t))$  using techniques from the study finiteness properties of arithmetic groups over global function fields. (Received January 18, 2005)