1023-20-1088   **Kai-Uwe Bux***, Deparment of Mathematics, University of Virginia, Kerchof Hall 229, Charlottesville, VA 22904, and **Dimitriy Sonkin**. *A geometric perspective on the conjugacy problem in Thompson's group F.* Preliminary report.

Victor Guba and Mark Sapir have given a solution to the conjugacy problem in diagram groups, of which Thompson's group F is a prominent example. For the special case of F, we give a geometric interpretation of their solution in terms of geodesic loops in the Brown-Geoghegan complex. (Received September 25, 2006)