1128-57-11   **David Freund*** (`dfreund@math.dartmouth.edu`), Kemeny Hall, 27 North Main Street, Hanover, NH 03784. *Minimal Intersection Number of Flat Virtual Links.* Preliminary report.

Given two free homotopy classes of loops on a surface, it is natural to count the minimal number of intersection points up to stabilization and destabilization of the surface. We use generalizations of the Goldman Lie bracket and the Andersen–Mattes–Reshetikhin Poisson bracket to obtain lower bounds on this quantity. (Received October 14, 2016)