1067-51-1442   **K.-D. Semmler*** (`klaus-dieter.semmler@epfl.ch`), SB-MATHGEOM, CH 1015 Lausanne, Switzerland. *Using Half turns for algorithms on hyper-elliptic Riemann surfaces.* Preliminary report.

Half-turns have given access to efficient geometric algorithms in presenting Riemann surfaces, in particular hyper-elliptic ones, in a minimal way. Also mappings between such surfaces can be understood in this way. We will give examples. (Received September 21, 2010)