

## **Hurwitz translation surfaces**

Gabriela Weitze-Schmithuessen, Karlsruhe Institute of Technology

For finite translation surfaces of genus  $g > 1$  there is a natural bound for the order of their group of translations depending on  $g$  due to a Riemann-Hurwitz formula argument. In analogy with classical Hurwitz surfaces, we call surfaces which achieve this maximal bound Hurwitz translation surfaces. We study for which  $g$  there exist Hurwitz translation surfaces of genus  $g$ .