1026-52-67 **Franz Schuster*** (`fschuster@osiris.tuwien.ac.at`) and **Rolf Schneider**. *Valuations, Multiplier Transformations and Projection Bodies.*

We discuss continuous mappings from the space of convex bodies in Euclidean space $\mathbb{R}^n$ into itself that are translation invariant valuations with respect to Minkowski addition and intertwine rotations. We present a recent result which shows that the projection body operator, which associates with every convex body its projection body, is the only non-trivial such valuation that maps the set of polytopes in $\mathbb{R}^n$ into itself. (Received February 12, 2007)