1062-46-264   **Maxim Zyskin*** (`Maxim.Zyskin@Utb.edu`), Dept Math, UTB, 80 Fort Brown, Brownsville, TX 78520. *On random integral currents, and counting lattice surfaces.*

Integral currents are generalized surfaces, which may be approximated by lattice surfaces. We show that for nice functions on a space of integral currents with compact support, for example for uniformly continuous and bounded functions, an invariant mean over integral currents can be uniquely defined. We also discuss bounds on number of surfaces on a finite lattice and of bounded norm. (Received August 10, 2010)