Ergodic Theory and Measured Group Theory Lecture 6

O Asume f is bounded, i.e.
$$f \in L^{\infty}(k, r)$$
. In particular, $f \ge -M$, $M > O$.

O by the bridge lemma,

$$D = \int t dt = \int A_u f dt \ge \frac{f^*}{3} \cdot 1 > 0$$
, a contradiction.
Thus, times $A_u f \le 0$. Similarly, time in $f A_u f \ge 0$, so the $A_u f = 0$.

(3) Tiling lemma. For any measurable ximple (3)
$$\frac{1}{2} \lim_{x \to \infty} \frac{1}{2} \lim_{x \to \infty$$