

rdan's decomposition and related results]

- Any bounded increasing function  $f$  is a function of finite variation, i.e.  $V(f) < \infty$ .
- (Jordan's decomposition) If  $f$  is a function of finite variation, i.e.  $V(f) < \infty$ , then  $f = f_1 - f_2$  where  $f_1, f_2$  are non-decreasing functions.
- The difference of two bounded increasing functions is a function of finite variation.

*Proof.* (S