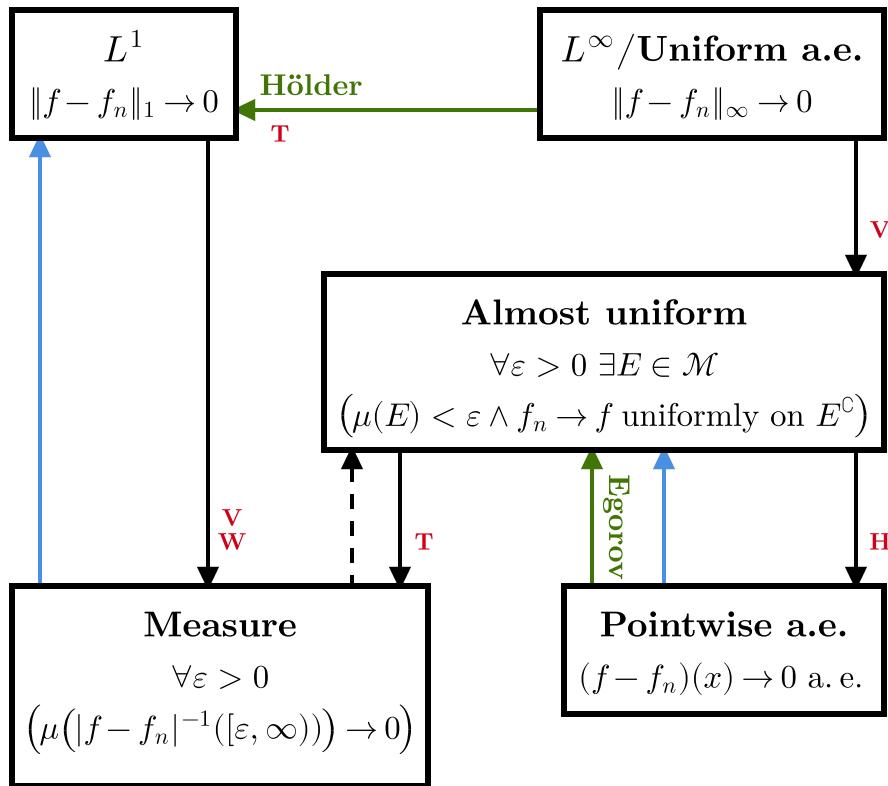


Modes of convergence

in a measure space (X, \mathcal{M}, μ)

Dashed implications hold after passing to a **subsequence**
Green implications hold in **finite** measure spaces
Blue implications hold for **dominated** sequences



Red letters denote **counterexamples** to the **converse** implication

Horizontal: $f_n = 1_{(n, n+1)}$

Typewriter: $1_{(0, 1)}, 1_{(0, 1/2)}, 1_{(1/2, 1)}, 1_{(0, 1/4)}, 1_{(1/4, 2/4)}, 1_{(2/4, 3/4)}, \dots$

Vertical: $f_n = n 1_{(0, 1/n)}$

Wide: $f_n = n^{-1} 1_{(0, n)}$