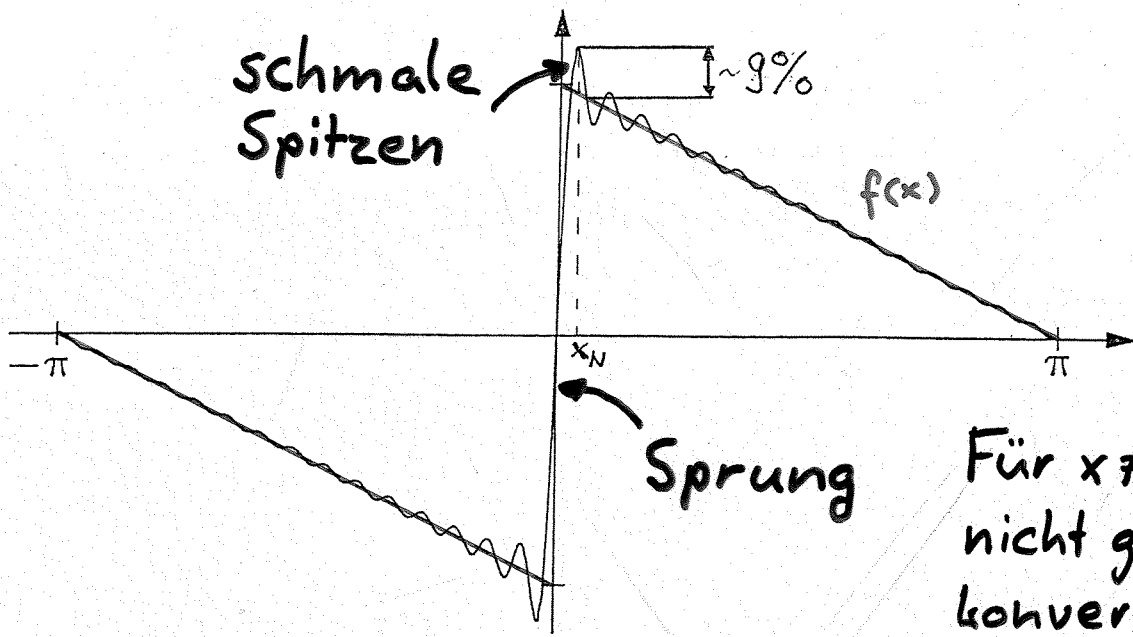


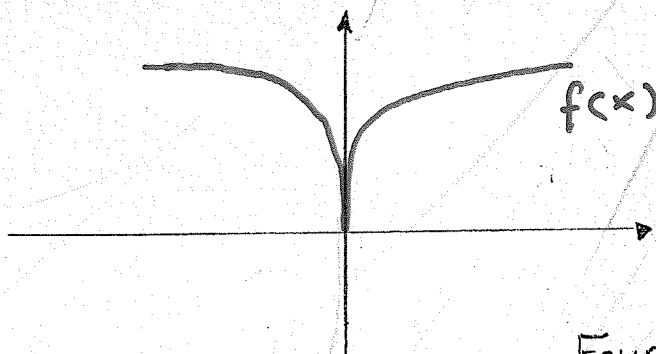
Gibbs - Phänomen (Aufgabe 15)



Für $x \neq 0$ pkt.weise,
nicht gleichmäßig
konvergent.

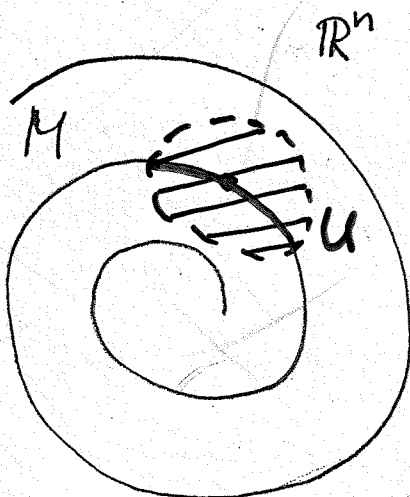
Stetige Fkt. mit divergenter Fourierreihe

Bsp von Fejér (Edwards, "Trigonometric Series")



Fourierreihe in $x=0$
divergent

Untermannigfaltigkeiten des \mathbb{R}^n



$$\exists f = \begin{pmatrix} f_1 \\ \vdots \\ f_{n-k} \end{pmatrix} : U \rightarrow \mathbb{R}^{n-k}$$

- $M \cap U = \{x \in U : f(x) = 0\}$
- $\forall x \in U$: Rang $\partial f = n-k$
 \uparrow
 $(n-k) \times n$ -Matrix

