Die hyperbalischen Funktionen each x := = = (x) + eyep(-x) heist commen Hyperbolicus  $sinh x := \frac{ese_h(x) - ese_h(-x)}{2}$ heißt Linus Hyperbolicus  $conh(x) = \sum_{m=0}^{co} \frac{x^{2m}}{(2m)!}$  $\sinh(X) = \sum_{n=0}^{\infty} \frac{x^{2n+1}}{(2n+1)!}$ conh (-x) = cosh (x) sinh(x)=-sinh(x)  $\cosh^2(x) - \sinh^2(x) = 1$ cos(x) = cosh(ix) cosh(ix) = cos(ix) $\sin(x) = -1 \cdot \sinh(ix) \cdot \sinh(x) = -1 \cdot \sin(ix)$ cosh (x+y) = cosh (x) cosh (y) t sinh (x) sinh (y) sinh(x+y) = sinh(x)cosh(y) + cosh(x)sinh(y)