Subject name Seite 1/1

-1-

## Chapter 1

Cambell Baker Hausdorf Für alle  $t \in \mathbb{R}$ 

$$\exp(tA) \exp(tB) = \exp\left(tA + tB + \frac{t^2}{2}[A, B] + \frac{t^3}{12}[A, [A, B]] + \frac{t^3}{12}[B, [B, A]] + \mathcal{O}\left(t^4\right)\right)$$