```
ln[-]:= d = m \{mx, my, 0\}
 Out[\bullet] = \{mmx, mmy, \emptyset\}
  In[@]:= a = \{ax, ay, az\}
                        b = \{bx, by, bz\}
 Out[•]= {ax, ay, az}
 Out[\bullet]= {bx, by, bz}
  In[*]:= la = d.a
                       1b = -d.b
                       1 = 1a + 1b
 Out[ • ]= ax m mx + ay m my
 Out[ \circ ] = -bx m mx - by m my
 Out[\ \ \ \ \ ]= ax m mx - bx m mx + ay m my - by m my
  ln[\bullet]:= p = 2 * Pi * 1/\lambda
                                                   Kreiszahl π
                           2 \left( \texttt{ax m mx} - \texttt{bx m mx} + \texttt{ay m my} - \texttt{by m my} \right) \, \pi 
  In[@]:= F1 = A * Exp[I * p]
                                                   E··· limaginä
\textit{Out[} \, \textit{\o} \, ] = \quad \textcircled{e} \, \frac{ 2 \, \texttt{i} \, \left( \texttt{ax m mx} - \texttt{bx m mx} + \texttt{ay m my} - \texttt{by m my} \right) \, \pi}{\lambda}
  ln[\, \circ \, ]:= A = 1
 Out[*]= 1
  In[•]:= F1
\textit{Out[ = ]} = \quad \textcircled{e} \ \frac{ \text{2 i } \left( \text{ax m mx} - \text{bx m mx} + \text{ay m my} - \text{by m my} \right) \ \pi}{\lambda}
  ln[-]:= F2 = Sum[F1, \{mx, 0, MX\}, \{my, 0, MY\}]
\textit{Out[*]} = \left( \mathbb{e}^{-\frac{2 \mathop{\mathrm{im}} \left( \mathop{\mathrm{bx}} \mathop{\mathrm{MX}} + \mathop{\mathrm{by}} \mathop{\mathrm{MY}} \right) \pi}{\lambda}} \left( \mathbb{e}^{\frac{2 \mathop{\mathrm{iax}} \mathop{\mathrm{m}} \left( \mathbf{1} + \mathop{\mathrm{MX}} \right) \pi}{\lambda}} - \mathbb{e}^{\frac{2 \mathop{\mathrm{ibx}} \mathop{\mathrm{m}} \left( \mathbf{1} + \mathop{\mathrm{MX}} \right) \pi}{\lambda}} \right) \left( \mathbb{e}^{\frac{2 \mathop{\mathrm{iay}} \mathop{\mathrm{m}} \left( \mathbf{1} + \mathop{\mathrm{MY}} \right) \pi}{\lambda}} - \mathbb{e}^{\frac{2 \mathop{\mathrm{iby}} \mathop{\mathrm{m}} \left( \mathbf{1} + \mathop{\mathrm{MY}} \right) \pi}{\lambda}} \right) \right) \right/ \mathbb{e}^{-\frac{2 \mathop{\mathrm{iay}} \mathop{\mathrm{m}} \left( \mathbf{1} + \mathop{\mathrm{MY}} \right) \pi}{\lambda}} \right) 
                             \left( \left( e^{\frac{2 \operatorname{i} \operatorname{ax} \operatorname{m} \pi}{\lambda}} - e^{\frac{2 \operatorname{i} \operatorname{bx} \operatorname{m} \pi}{\lambda}} \right) \left( e^{\frac{2 \operatorname{i} \operatorname{ay} \operatorname{m} \pi}{\lambda}} - e^{\frac{2 \operatorname{i} \operatorname{by} \operatorname{m} \pi}{\lambda}} \right) \right)
  ln[ \circ ] := LX = Limit[F2, ax \rightarrow bx]
 \text{Out[*]=} \begin{array}{c} e^{-\frac{2\operatorname{i}\operatorname{by}\operatorname{m}\operatorname{MY}\pi}{\lambda}} \left( e^{\frac{2\operatorname{i}\operatorname{ay}\operatorname{m}\left(1+\operatorname{MY}\right)\pi}{\lambda}} - e^{\frac{2\operatorname{i}\operatorname{by}\operatorname{m}\left(1+\operatorname{MY}\right)\pi}{\lambda}} \right) \left(1+\operatorname{MX}\right) \\ \\ e^{\frac{2\operatorname{i}\operatorname{ay}\operatorname{m}\pi}{\lambda}} - e^{\frac{2\operatorname{i}\operatorname{by}\operatorname{m}\pi}{\lambda}} \end{array} \right) \\ \end{array}
```

Grenzwert

$$\text{Out[ o ]= } \frac{\mathbb{e}^{-\frac{2 \text{ i bx m MX } \pi}{\lambda}} \left(\mathbb{e}^{\frac{2 \text{ i ax m } \left(\mathbf{1} + \text{MX}\right) \pi}{\lambda}} - \mathbb{e}^{\frac{2 \text{ i bx m } \left(\mathbf{1} + \text{MX}\right) \pi}{\lambda}}\right) \left(\mathbf{1} + \text{MY}\right) }{\mathbb{e}^{\frac{2 \text{ i ax m } \pi}{\lambda}} - \mathbb{e}^{\frac{2 \text{ i bx m } \pi}{\lambda}}$$

Grenzwert

Out[
$$\sigma$$
]=  $(1 + MX) (1 + MY)$ 

$$In[ \bullet ] :=$$
 Limit[LY, ax  $\rightarrow$  bx]

Grenzwert

Out[
$$\sigma$$
]=  $(1 + MX) (1 + MY)$ 

$$lo[*] = test = Sum[Exp[k*x+u*y], \{x, 0, X-1\}, \{y, 0, Y-1\}]$$

s··· Exponentialfunktion

$$\textit{Out[s]} = \frac{\left(-1 + e^{k\,X}\right) \, \left(-1 + e^{u\,Y}\right)}{\left(-1 + e^{k}\right) \, \left(-1 + e^{u}\right)}$$