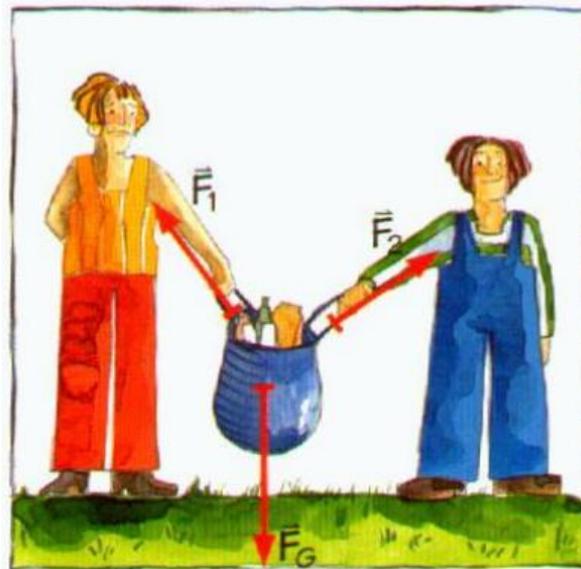
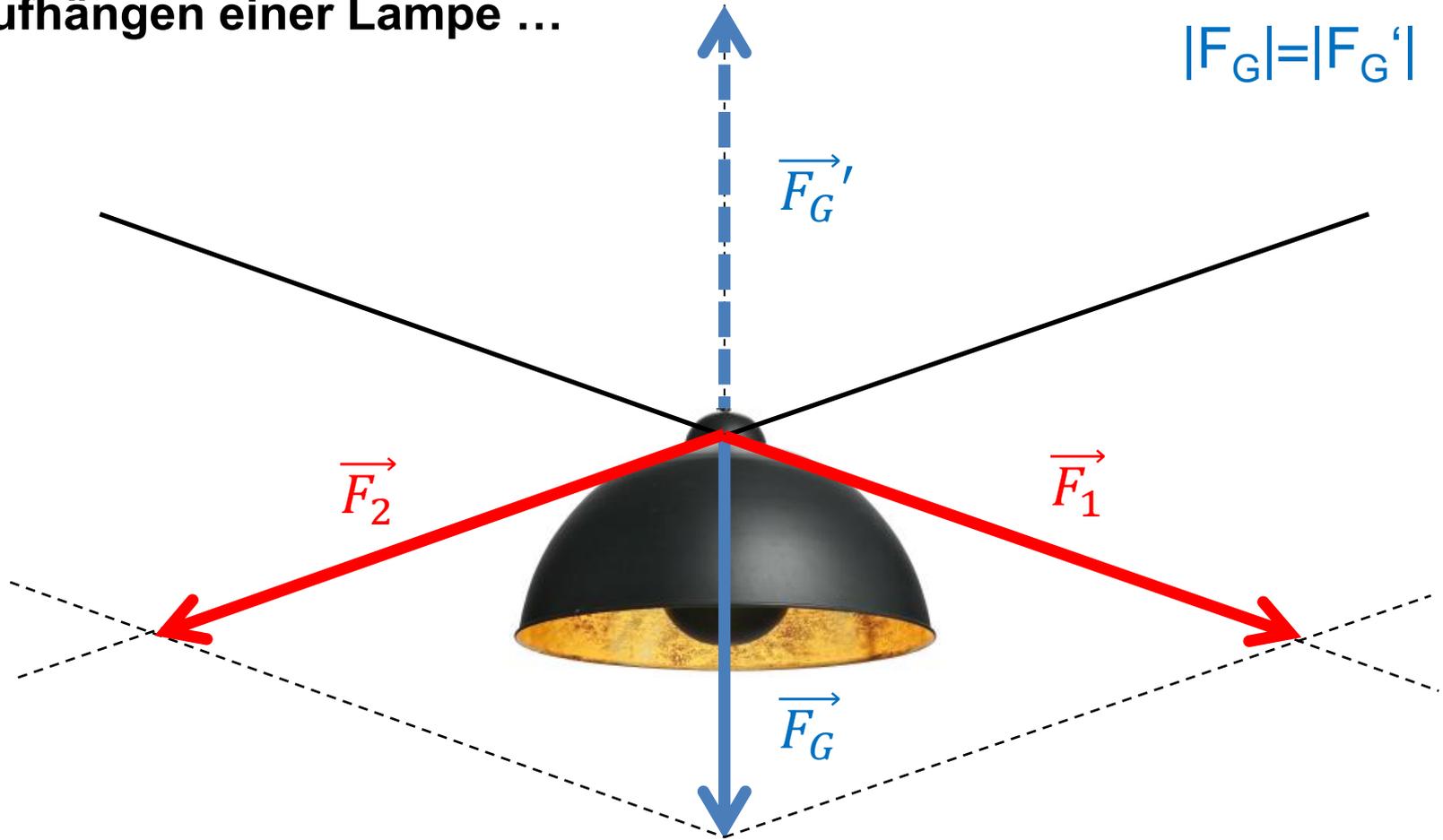


Zerlegung von Kräften

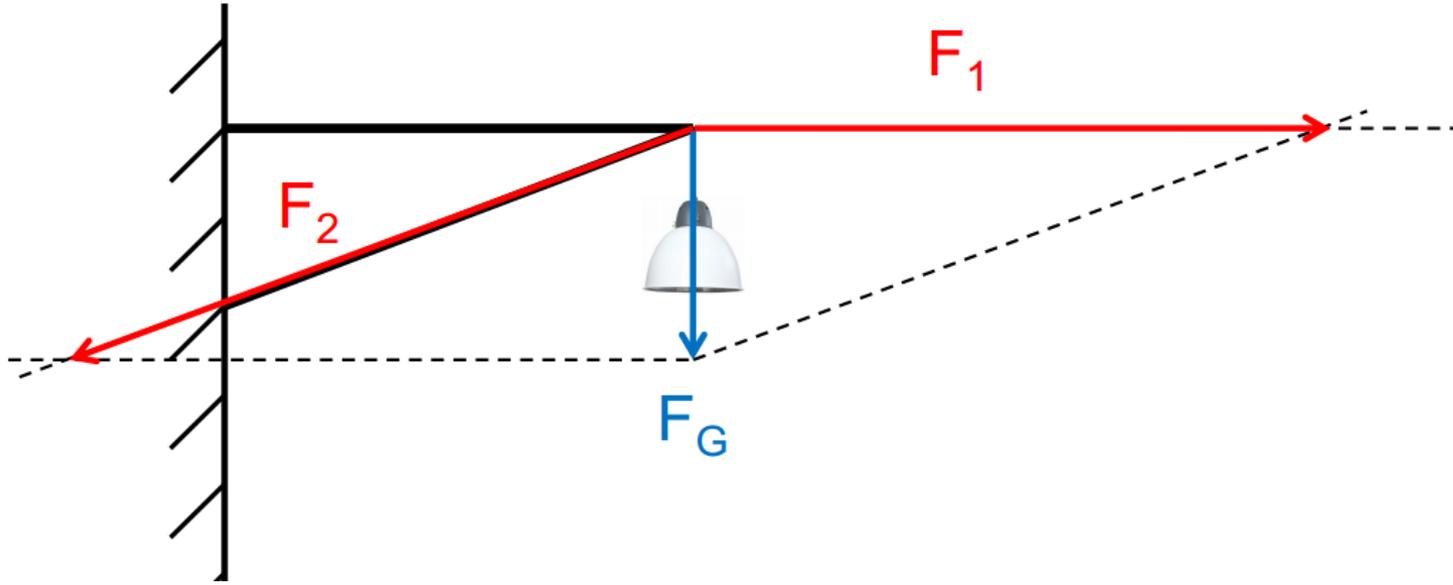


Aufhängen einer Lampe ...

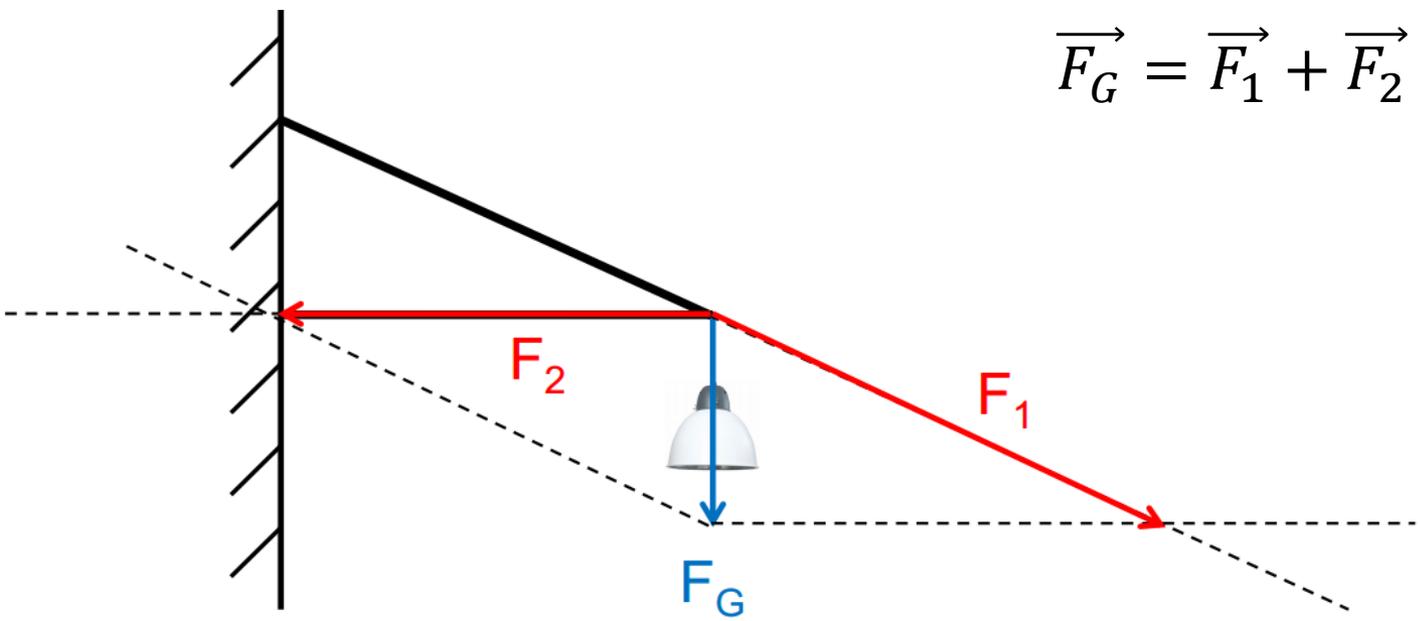
$$|F_G| = |F_G'|$$



Es gilt:
$$\vec{F}_G = \vec{F}_1 + \vec{F}_2$$

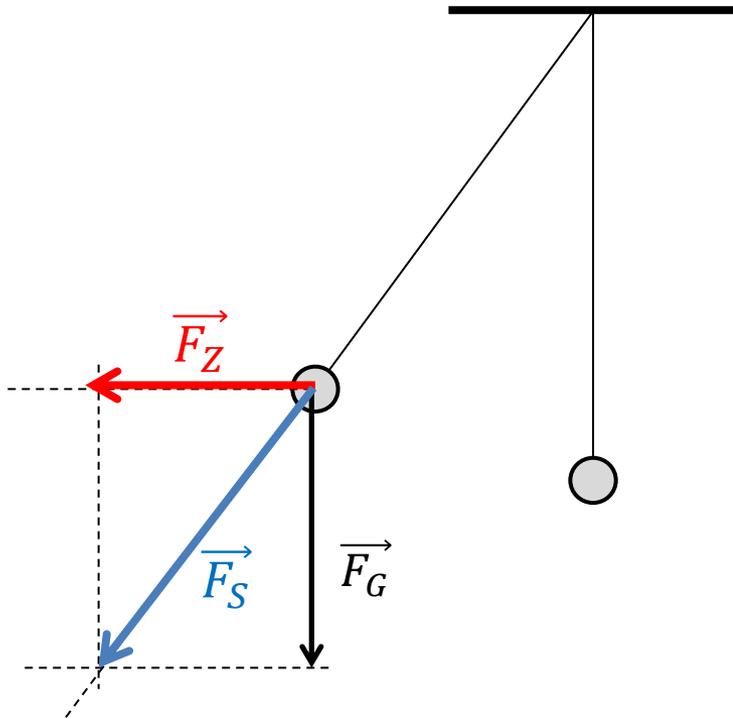


$$\vec{F}_G = \vec{F}_1 + \vec{F}_2$$



Kräfte am Fadenpendel:

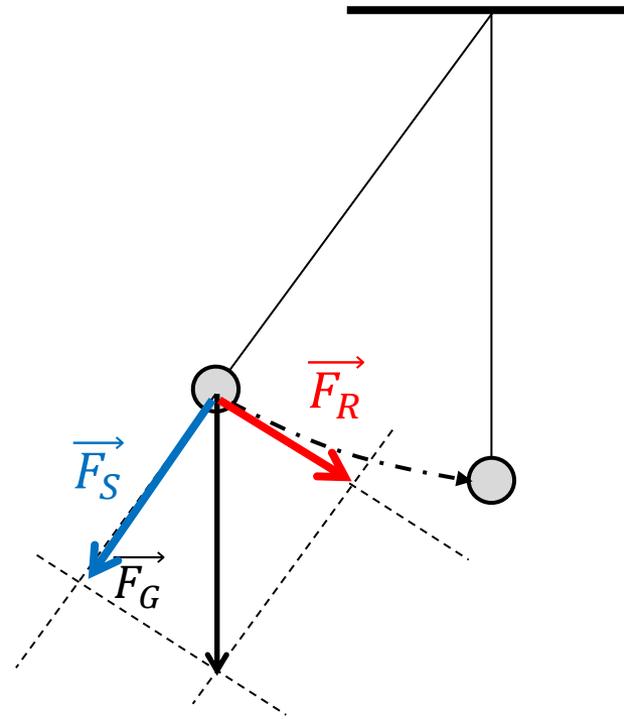
Anheben:



F_Z ... Zugkraft (zum Anheben)

F_S ... Seilkraft

Loslassen:

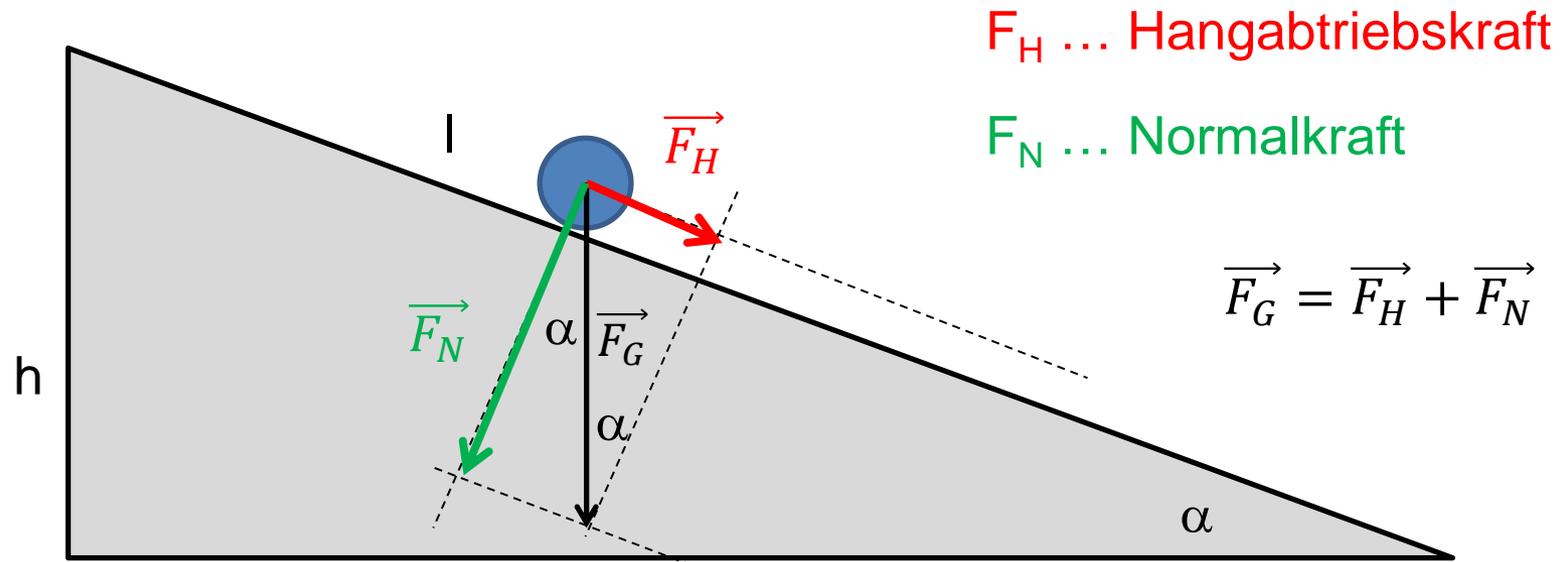


F_Z ... rücktreibende Kraft

F_S ... Seilkraft

Kräfte an der geneigten Ebene:

- ▶ dynamische Kraftwirkung



α ... Neigungswinkel der Ebene

h ... Höhe der Ebene

l ... Länge der Ebene

$$F_H = F_G \cdot \sin(\alpha)$$

$$F_N = F_G \cdot \cos(\alpha)$$

$$F_H = F_G \cdot \frac{h}{l}$$

$$\sin(\alpha) = \frac{h}{l}$$