|  |  |  |
| --- | --- | --- |
| 🌡 | **Experiment mit dem Längenausdehnungsapparat** | **Arbeitsblatt** |
| **Durchführung:****\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_****\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_****\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_****\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_****\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_****\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_****\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_****\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| **Beobachtung:**Raumtemperatur:$ϑ\_{1}=$  Ausgangslänge des Stabes:$l\_{0}=$

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| $$ϑ\_{2} in °C$$ |  |  |  |  |  |  |
| $$∆ϑ in K$$ |  |  |  |  |  |  |
| $$∆l in mm$$ |  |  |  |  |  |  |

 |
| **Auswertung:**$∆l$

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |

$∆ϑ$ ∆𝒍~∆𝝑$$∆l=α∙l\_{0}∙∆ϑ$$**Genauer, es gilt: mit** $ ∆l:$$∆ϑ=ϑ\_{2}-ϑ\_{1}$ ist der **Temperaturunterschied**. Er **wird** nicht in °C sondern **in K (Kelvin) angegeben.**$l\_{0}:$ $α:$ |