```
lineare Regression von DataLinReg.dat

LinearFit mit Option "Scale Errors with sqrt(Chi2/doF)"

Linear Regression using function: A*x+B
B (y-intercept) = 1.957232142857143e+02 +/- 2.252921990469467e-01
A (slope) = -1.001488095238095e+01 +/- 4.461450346762922e-02
-----------------------------------------------------------------------
Chi^2/doF = 1.671981292517004e-01
R^2 = 0.999722241130897
Adjusted R^2 = 0.999679508997189
RMSE (Root Mean Squared Error) = 0.408898678466562
RSS (Residual Sum of Squares) = 2.34077380952381
-----------------------------------------------------------------------

LinearFit ohne Option "Scale Errors with sqrt(Chi2/doF)"

Linear Regression using function: A*x+B
B (y-intercept) = 1.957232142857143e+02 +/- 2.252921990469467e-01
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RSS (Residual Sum of Squares) = 2.34077380952381
#########################################################################

gewichtete lineare Regression von DataWeightedLinReg1.dat
(gewichtet mit systematischem Restfehler)

LinearFit mit Option "Scale Errors with sqrt(Chi2/doF)"

Linear Regression using function: A*x+B
Weighting Method: Instrumental, using error bars
B (y-intercept) = 1.957067396883333e+02 +/- 1.566352195152149e-01
A (slope) = -1.001137532586336e+01 +/- 3.001222094441872e-02
-------------------------------------------------------------------------
Chi^2/doF = 2.225043810434601e+00
R^2 = 0.999722071005109
Adjusted R^2 = 0.999679312698202
RMSE (Root Mean Squared Error) = 1.49165807423639
RSS (Residual Sum of Squares) = 31.1506133460845
(ok)---------------------------------------------------------------------

LinearFit ohne Option "Scale Errors with sqrt(Chi2/doF)"

Linear Regression using function: A*x+B
Weighting Method: Instrumental, using error bars
B (y-intercept) = 1.957067396883333e+02 +/- 1.566352195152149e-01
A (slope) = -1.001137532586336e+01 +/- 3.001222094441872e-02
-------------------------------------------------------------------------
Chi^2/doF = 2.225043810434601e+00
R^2 = 0.999722071005109
Adjusted R^2 = 0.999679312698202
RMSE (Root Mean Squared Error) = 1.49165807423639
RSS (Residual Sum of Squares) = 31.1506133460845
(ok)---------------------------------------------------------------------
```