

Spule

| Spulenstrom [mA] | Fehler | SQUID [mV] | Fehler | Feld [G] | Fehler | Temperatur [K] |
|------------------|--------|------------|--------|----------|----------|----------------|
| 0 | 5 | 120 | 30 | 0.00E+00 | 8.66E-02 | 299 |
| 35 | 5 | 140 | 30 | 6.06E-01 | 8.66E-02 | |
| 78 | 5 | 170 | 30 | 1.35E+00 | 8.66E-02 | |
| 135 | 5 | 190 | 30 | 2.34E+00 | 8.66E-02 | |
| 190 | 5 | 230 | 30 | 3.29E+00 | 8.66E-02 | |
| 230 | 5 | 240 | 30 | 3.98E+00 | 8.66E-02 | |
| 270 | 5 | 260 | 30 | 4.68E+00 | 8.66E-02 | |
| 300 | 5 | 320 | 30 | 5.19E+00 | 8.66E-02 | |
| 345 | 5 | 320 | 30 | 5.97E+00 | 8.66E-02 | |
| 390 | 5 | 340 | 30 | 6.75E+00 | 8.66E-02 | |
| 0 | 5 | 140 | 30 | 0.00E+00 | 8.66E-02 | |

| | |
|-----------------------------|------|
| ohne Probenhalter | -800 |
| Offset adjust ohne Behälter | 930 |

| Lineare Regression | | |
|------------------------------|------------|-----------|
| SQUID-Spannung [mV] → B-Feld | a | b |
| B(U)=a*U+b | | |
| Werte: | 3.02E-02 | -3.67E+00 |
| Standardfehler | 1.62E-03 | 3.83E-01 |
| Bestimmtheits | 0.974790 | 0.404371 |
| F-Wert der Varianz | 348.002097 | 9.000000 |
| Abweichung [mV] | 56.903969 | 1.471646 |

| B(U)=a*U+b | für U in V |
|--------------|------------|
| a [G/V] | 30.18 |
| sigmaa [G/V] | 1.62 |

Nickel

| | Spulenstrom | Fehler | B-Feld bei P | Fehler | Squid | mit Probe [n] | offset vor me | offset nach | Spannung | Fehler |
|---------------|-------------|--------|--------------|--------|-------|---------------|---------------|-------------|----------|--------|
| senkrecht zum | 1150 | 5 | 1130.24 | 4.92 | | 2500 | 320 | 330 | 1.25 | 0.05 |
| parallel | 1150 | 5 | 1130.24 | 4.92 | | 4650 | 330 | 350 | 3.38 | 0.05 |

| magnetisches | sigma max | 55.06 | - | emu/g |
|--------------|------------|---------|--------|-------|
| | B max | 6169 | - | G |
| | m | 0.0202 | 0.0001 | g |
| | B real | 1130.24 | 4.92 | G |
| | sigma real | 10.09 | 0.04 | emu/g |
| | mu real | 0.204 | 0.001 | emu |

| SQUID-Spa | Wert | Fehler |
|-------------|------------|----------|
| a senkrecht | 1.6367E-01 | 6.01E-03 |
| a parallel | 6.0288E-02 | 8.96E-04 |

Offset ist hier ohne Behälter -> 930mV vom Messwert abziehen

Terbium

| Aufmagnetisie | MagnetfStrom [mA] | |
|---------------|-------------------|---------|
| | | 50 |
| | 75 | 74.08 |
| | 100 | 99.47 |
| | 150 | 150.25 |
| | 400 | 404.16 |
| | 1000 | 1013.54 |

| | Spulenst | Fehler | Feld [G] | Fehler | |
|-----------|----------|--------|----------|--------|----------------|
| senkrecht | 0 | 5 | 2.1 | 4.9 | Tb kalt B=0 |
| | 152 | 5 | 151.7 | 4.9 | Tb kalt B=150G |
| | 65 | 5 | 66.1 | 4.9 | Tb warm B=50G |
| | 168 | 5 | 167.5 | 4.9 | Tb warm B=150G |
| parallel | 52 | 5 | 53.3 | 4.9 | Tb warm B=50G |
| | 79 | 5 | 79.8 | 4.9 | Tb warm B=75G |
| | 104 | 5 | 104.5 | 4.9 | Tb warm B=100G |
| | 158 | 5 | 157.6 | 4.9 | Tb warm B=150G |

Gadolinium

| | | | | |
|---------------|----------------|------------|----------|--------|
| Aufmagnetisie | Magnetfeld [G] | Strom [mA] | | |
| | 50 | 48.69 | | |
| | 75 | 74.08 | | |
| | 100 | 99.47 | | |
| | 150 | 150.25 | | |
| | 400 | 404.16 | | |
| | 1000 | 1013.54 | | |
| würfelig | Spulenstrom e | Fehler | Feld [G] | Fehler |
| | 1014 | | 1000.45 | |

Gd warm B=1000G

Tb kalt, B=0G, kalt, senkrecht

| # T [K] | U[V] | B[G] | syst Fehler vo | sigma | Fehler | dB/dT |
|---------|--------|-------------|----------------|-------------|------------|------------|
| 114.320 | -0.122 | -0.85971346 | 1.21877227 | -2.2690E-01 | 3.2155E-01 | |
| 114.420 | -0.128 | -1.04079630 | 1.21917791 | -2.7470E-01 | 3.2160E-01 | |
| 114.481 | -0.132 | -1.16151819 | 1.21949118 | -3.0656E-01 | 3.2164E-01 | |
| 114.541 | -0.129 | -1.07097677 | 1.21925301 | -2.8266E-01 | 3.2161E-01 | |
| 114.600 | -0.132 | -1.16151819 | 1.21949118 | -3.0656E-01 | 3.2164E-01 | |
| 114.658 | -0.138 | -1.34260103 | 1.22002531 | -3.5435E-01 | 3.2171E-01 | |
| 114.716 | -0.148 | -1.64440577 | 1.22108650 | -4.3401E-01 | 3.2184E-01 | |
| 114.774 | -0.138 | -1.34260103 | 1.22002531 | -3.5435E-01 | 3.2171E-01 | |
| 114.831 | -0.140 | -1.40296198 | 1.22022047 | -3.7028E-01 | 3.2173E-01 | |
| 114.887 | -0.134 | -1.22187914 | 1.21966067 | -3.2249E-01 | 3.2166E-01 | |
| 114.943 | -0.124 | -0.92007441 | 1.21889890 | -2.4284E-01 | 3.2157E-01 | |
| 114.998 | -0.117 | -0.70881109 | 1.21849320 | -1.8708E-01 | 3.2152E-01 | |
| 115.052 | -0.115 | -0.64845015 | 1.21839660 | -1.7115E-01 | 3.2150E-01 | |
| 115.106 | -0.111 | -0.52772825 | 1.21822915 | -1.3928E-01 | 3.2148E-01 | |
| 115.160 | -0.119 | -0.76917204 | 1.21859839 | -2.0301E-01 | 3.2153E-01 | |
| 115.214 | -0.128 | -1.04079630 | 1.21917791 | -2.7470E-01 | 3.2160E-01 | |
| 115.267 | -0.133 | -1.19169867 | 1.21957486 | -3.1453E-01 | 3.2165E-01 | |
| 115.321 | -0.138 | -1.34260103 | 1.22002531 | -3.5435E-01 | 3.2171E-01 | |
| 115.374 | -0.142 | -1.46332293 | 1.22042416 | -3.8622E-01 | 3.2175E-01 | |
| 115.428 | -0.142 | -1.46332293 | 1.22042416 | -3.8622E-01 | 3.2175E-01 | |
| 115.481 | -0.141 | -1.43314245 | 1.22032125 | -3.7825E-01 | 3.2174E-01 | |
| 115.534 | -0.127 | -1.01061583 | 1.21910494 | -2.6673E-01 | 3.2159E-01 | 8.9242E-01 |
| 115.587 | -0.114 | -0.61826967 | 1.21835151 | -1.6318E-01 | 3.2150E-01 | 9.0400E-01 |
| 115.640 | -0.115 | -0.64845015 | 1.21839660 | -1.7115E-01 | 3.2150E-01 | 8.5777E-01 |
| 115.694 | -0.119 | -0.76917204 | 1.21859839 | -2.0301E-01 | 3.2153E-01 | 7.5039E-01 |
| 115.747 | -0.124 | -0.92007441 | 1.21889890 | -2.4284E-01 | 3.2157E-01 | 6.9955E-01 |
| 115.800 | -0.130 | -1.10115725 | 1.21933026 | -2.9063E-01 | 3.2162E-01 | 6.8322E-01 |
| 115.853 | -0.131 | -1.13133772 | 1.21940965 | -2.9859E-01 | 3.2163E-01 | 6.7179E-01 |
| 115.906 | -0.126 | -0.98043535 | 1.21903412 | -2.5877E-01 | 3.2158E-01 | 6.6362E-01 |
| 115.958 | -0.121 | -0.82953299 | 1.21871216 | -2.1894E-01 | 3.2154E-01 | 7.4411E-01 |
| 116.011 | -0.122 | -0.85971346 | 1.21877227 | -2.2690E-01 | 3.2155E-01 | 8.1209E-01 |
| 116.064 | -0.122 | -0.85971346 | 1.21877227 | -2.2690E-01 | 3.2155E-01 | 8.9995E-01 |
| 116.117 | -0.116 | -0.67863062 | 1.21844383 | -1.7911E-01 | 3.2151E-01 | 9.4640E-01 |
| 116.169 | -0.115 | -0.64845015 | 1.21839660 | -1.7115E-01 | 3.2150E-01 | 9.3155E-01 |
| 116.221 | -0.113 | -0.58808920 | 1.21830858 | -1.5521E-01 | 3.2149E-01 | 9.3898E-01 |
| 116.272 | -0.116 | -0.67863062 | 1.21844383 | -1.7911E-01 | 3.2151E-01 | 9.8762E-01 |
| 116.323 | -0.115 | -0.64845015 | 1.21839660 | -1.7115E-01 | 3.2150E-01 | 1.0390E+00 |
| 116.373 | -0.109 | -0.46736731 | 1.21815830 | -1.2335E-01 | 3.2147E-01 | 1.1098E+00 |
| 116.422 | -0.120 | -0.79935251 | 1.21865420 | -2.1097E-01 | 3.2154E-01 | 1.1356E+00 |
| 116.471 | -0.118 | -0.73899157 | 1.21854472 | -1.9504E-01 | 3.2152E-01 | 1.1064E+00 |
| 116.518 | -0.117 | -0.70881109 | 1.21849320 | -1.8708E-01 | 3.2152E-01 | 1.0242E+00 |
| 116.565 | -0.121 | -0.82953299 | 1.21871216 | -2.1894E-01 | 3.2154E-01 | 9.3909E-01 |
| 116.612 | -0.118 | -0.73899157 | 1.21854472 | -1.9504E-01 | 3.2152E-01 | 8.6772E-01 |
| 116.658 | -0.118 | -0.73899157 | 1.21854472 | -1.9504E-01 | 3.2152E-01 | 8.1939E-01 |
| 116.703 | -0.120 | -0.79935251 | 1.21865420 | -2.1097E-01 | 3.2154E-01 | 8.2227E-01 |
| 116.747 | -0.124 | -0.92007441 | 1.21889890 | -2.4284E-01 | 3.2157E-01 | 7.9594E-01 |
| 116.791 | -0.127 | -1.01061583 | 1.21910494 | -2.6673E-01 | 3.2159E-01 | 7.6571E-01 |
| 116.834 | -0.129 | -1.07097677 | 1.21925301 | -2.8266E-01 | 3.2161E-01 | 6.9859E-01 |
| 116.877 | -0.137 | -1.31242056 | 1.21993094 | -3.4639E-01 | 3.2169E-01 | 5.3237E-01 |
| 116.919 | -0.139 | -1.37278151 | 1.22012182 | -3.6232E-01 | 3.2172E-01 | 4.4092E-01 |
| 116.960 | -0.143 | -1.49350340 | 1.22052922 | -3.9418E-01 | 3.2177E-01 | 3.4861E-01 |
| 117.001 | -0.147 | -1.61422529 | 1.22097078 | -4.2604E-01 | 3.2182E-01 | 2.6333E-01 |
| 117.041 | -0.156 | -1.88584956 | 1.22208901 | -4.9773E-01 | 3.2196E-01 | 1.8059E-01 |
| 117.081 | -0.149 | -1.67458624 | 1.22120436 | -4.4197E-01 | 3.2185E-01 | 9.3120E-02 |
| 117.120 | -0.147 | -1.61422529 | 1.22097078 | -4.2604E-01 | 3.2182E-01 | 4.4174E-02 |
| 117.159 | -0.143 | -1.49350340 | 1.22052922 | -3.9418E-01 | 3.2177E-01 | 2.9116E-02 |
| 117.198 | -0.141 | -1.43314245 | 1.22032125 | -3.7825E-01 | 3.2174E-01 | 6.5152E-02 |
| 117.236 | -0.135 | -1.25205961 | 1.21974862 | -3.3046E-01 | 3.2167E-01 | 1.2794E-01 |
| 117.273 | -0.131 | -1.13133772 | 1.21940965 | -2.9859E-01 | 3.2163E-01 | 2.2647E-01 |
| 117.311 | -0.141 | -1.43314245 | 1.22032125 | -3.7825E-01 | 3.2174E-01 | 4.0458E-01 |
| 117.348 | -0.145 | -1.55386435 | 1.22074573 | -4.1011E-01 | 3.2179E-01 | 5.2766E-01 |
| 117.384 | -0.152 | -1.76512766 | 1.22157072 | -4.6587E-01 | 3.2190E-01 | 6.8146E-01 |
| 117.420 | -0.164 | -2.12729334 | 1.22322764 | -5.6146E-01 | 3.2210E-01 | 8.4833E-01 |
| 117.456 | -0.162 | -2.06693240 | 1.22293024 | -5.4553E-01 | 3.2207E-01 | 1.0805E+00 |
| 117.491 | -0.168 | -2.24801524 | 1.22384789 | -5.9332E-01 | 3.2218E-01 | 1.2570E+00 |
| 117.527 | -0.169 | -2.27819571 | 1.22400825 | -6.0129E-01 | 3.2220E-01 | 1.4155E+00 |
| 117.562 | -0.171 | -2.33855666 | 1.22433531 | -6.1722E-01 | 3.2224E-01 | 1.5225E+00 |
| 117.596 | -0.174 | -2.42909808 | 1.22484178 | -6.4111E-01 | 3.2230E-01 | 1.5809E+00 |
| 117.630 | -0.181 | -2.64036139 | 1.22609744 | -6.9687E-01 | 3.2246E-01 | 1.5460E+00 |
| 117.664 | -0.183 | -2.70072234 | 1.22647517 | -7.1280E-01 | 3.2251E-01 | 1.4543E+00 |
| 117.698 | -0.197 | -3.12324896 | 1.22935451 | -8.2432E-01 | 3.2287E-01 | 1.3654E+00 |
| 117.732 | -0.206 | -3.39487323 | 1.23142197 | -8.9601E-01 | 3.2312E-01 | 1.2761E+00 |
| 117.766 | -0.213 | -3.60613654 | 1.23314646 | -9.5177E-01 | 3.2334E-01 | 1.2064E+00 |

| | |
|---------------|------------|
| Skala Eichen | |
| mittelwert uq | -0.0935142 |
| fehler sigma | 0.0269896 |
| sigma | 0.03 |

| | |
|-----------------|-------------|
| Masse der Probe | |
| Dichte | 8.219g/cm^3 |
| Volumen | 0.0025Cm^3 |
| Masse | 0.0205g |

Quelle: Wikipedi:

| | |
|-----------|------------|
| sigma min | -9.52E-001 |
| sigma max | 6.41E-001 |

Tb kalt, B=150G, kalt, senkrecht

| # T [K] | U [V] | B[G] | syst Fehler vo | sigma | Fehler | dB/dT |
|---------|--------|--------------|----------------|-------------|------------|-------------|
| 113.557 | 12.723 | 386.22335127 | 20.73762727 | 1.0194E+02 | 3.7583E+00 | |
| 113.816 | 12.723 | 386.22335127 | 20.73762727 | 1.0194E+02 | 3.7583E+00 | |
| 113.974 | 12.723 | 386.22335127 | 20.73762727 | 1.0194E+02 | 3.7583E+00 | |
| 114.133 | 12.723 | 386.22335127 | 20.73762727 | 1.0194E+02 | 3.7583E+00 | |
| 114.294 | 12.723 | 386.22335127 | 20.73762727 | 1.0194E+02 | 3.7583E+00 | |
| 114.455 | 12.723 | 386.22335127 | 20.73762727 | 1.0194E+02 | 3.7583E+00 | |
| 114.619 | 12.723 | 386.22335127 | 20.73762727 | 1.0194E+02 | 3.7583E+00 | |
| 114.784 | 12.723 | 386.22335127 | 20.73762727 | 1.0194E+02 | 3.7583E+00 | |
| 114.950 | 12.723 | 386.22335127 | 20.73762727 | 1.0194E+02 | 3.7583E+00 | |
| 115.118 | 12.723 | 386.22335127 | 20.73762727 | 1.0194E+02 | 3.7583E+00 | |
| 115.287 | 0.157 | 6.97552250 | 1.24359918 | 1.8411E+00 | 3.2026E-01 | |
| 115.737 | -0.087 | -0.38851301 | 1.18623434 | -1.0254E-01 | 3.1306E-01 | |
| 115.990 | -0.085 | -0.32815207 | 1.18618195 | -8.6609E-02 | 3.1305E-01 | |
| 116.166 | -0.088 | -0.41869349 | 1.18626385 | -1.1051E-01 | 3.1306E-01 | |
| 116.354 | -0.099 | -0.75067869 | 1.18673395 | -1.9813E-01 | 3.1312E-01 | |
| 116.533 | -0.126 | -1.56555148 | 1.18901686 | -4.1320E-01 | 3.1340E-01 | |
| 116.776 | -0.131 | -1.71645384 | 1.18961517 | -4.5303E-01 | 3.1348E-01 | |
| 116.958 | -0.133 | -1.77681479 | 1.18986981 | -4.6896E-01 | 3.1351E-01 | |
| 117.141 | -0.118 | -1.32410769 | 1.18817349 | -3.4947E-01 | 3.1330E-01 | |
| 117.324 | -0.108 | -1.02230296 | 1.18731686 | -2.6982E-01 | 3.1319E-01 | |
| 117.509 | -0.106 | -0.96194201 | 1.18717192 | -2.5389E-01 | 3.1317E-01 | |
| 117.696 | -0.115 | -1.23356627 | 1.18789343 | -3.2558E-01 | 3.1326E-01 | -1.5460E+02 |
| 117.883 | -0.116 | -1.26374674 | 1.18798459 | -3.3354E-01 | 3.1328E-01 | -1.3953E+02 |
| 118.070 | -0.110 | -1.08266390 | 1.18747060 | -2.8575E-01 | 3.1321E-01 | -1.2469E+02 |
| 118.256 | -0.101 | -0.81103964 | 1.18684807 | -2.1406E-01 | 3.1313E-01 | -1.0975E+02 |
| 118.521 | -0.098 | -0.72049822 | 1.18668019 | -1.9016E-01 | 3.1311E-01 | -9.4447E+01 |
| 118.700 | -0.096 | -0.66013727 | 1.18657929 | -1.7423E-01 | 3.1310E-01 | -7.9024E+01 |
| 118.876 | -0.102 | -0.84122011 | 1.18690844 | -2.2202E-01 | 3.1314E-01 | -6.3886E+01 |
| 119.047 | -0.101 | -0.81103964 | 1.18684807 | -2.1406E-01 | 3.1313E-01 | -4.8522E+01 |
| 119.215 | -0.104 | -0.90158106 | 1.18703578 | -2.3796E-01 | 3.1316E-01 | -3.2953E+01 |
| 119.378 | -0.095 | -0.62995680 | 1.18653214 | -1.6627E-01 | 3.1310E-01 | -1.7055E+01 |
| 119.537 | -0.090 | -0.47905443 | 1.18632948 | -1.2644E-01 | 3.1307E-01 | -7.1763E-01 |
| 119.691 | -0.093 | -0.56959585 | 1.18644446 | -1.5033E-01 | 3.1308E-01 | -2.9768E-01 |
| 119.841 | -0.091 | -0.50923491 | 1.18636560 | -1.3440E-01 | 3.1307E-01 | -1.8658E-01 |
| 119.986 | -0.093 | -0.56959585 | 1.18644446 | -1.5033E-01 | 3.1308E-01 | -1.0268E-01 |
| 120.127 | -0.107 | -0.99212248 | 1.18724329 | -2.6185E-01 | 3.1318E-01 | -9.5985E-02 |
| 120.263 | -0.113 | -1.17320532 | 1.18771771 | -3.0965E-01 | 3.1324E-01 | -1.2687E-01 |
| 120.395 | -0.117 | -1.29392722 | 1.18807795 | -3.4151E-01 | 3.1329E-01 | -2.1312E-01 |
| 120.566 | -0.108 | -1.02230296 | 1.18731686 | -2.6982E-01 | 3.1319E-01 | -2.5969E-01 |
| 120.687 | -0.111 | -1.11284438 | 1.18755077 | -2.9371E-01 | 3.1322E-01 | -3.2182E-01 |
| 120.804 | -0.121 | -1.41464911 | 1.18847331 | -3.7337E-01 | 3.1334E-01 | -3.7692E-01 |
| 120.918 | -0.133 | -1.77681479 | 1.18986981 | -4.6896E-01 | 3.1351E-01 | -4.8778E-01 |
| 121.027 | -0.133 | -1.77681479 | 1.18986981 | -4.6896E-01 | 3.1351E-01 | -6.1682E-01 |
| 121.133 | -0.128 | -1.62591242 | 1.18924962 | -4.2913E-01 | 3.1343E-01 | -7.3391E-01 |
| 121.237 | -0.127 | -1.59573195 | 1.18913215 | -4.2116E-01 | 3.1342E-01 | -8.5984E-01 |
| 121.342 | -0.123 | -1.47501006 | 1.18868415 | -3.8930E-01 | 3.1336E-01 | -9.5727E-01 |
| 121.451 | -0.116 | -1.26374674 | 1.18798459 | -3.3354E-01 | 3.1328E-01 | -9.5734E-01 |
| 121.566 | -0.108 | -1.02230296 | 1.18731686 | -2.6982E-01 | 3.1319E-01 | -9.0400E-01 |
| 121.688 | -0.092 | -0.53941538 | 1.18640393 | -1.4237E-01 | 3.1308E-01 | -7.8359E-01 |
| 121.870 | -0.082 | -0.23761065 | 1.18611990 | -6.2713E-02 | 3.1304E-01 | -6.8726E-01 |
| 122.008 | -0.074 | 0.00383314 | 1.18605152 | 1.0117E-03 | 3.1304E-01 | -5.5423E-01 |
| 122.154 | -0.067 | 0.21509645 | 1.18610755 | 5.6771E-02 | 3.1304E-01 | -3.6261E-01 |
| 122.307 | -0.075 | -0.02634733 | 1.18605235 | -6.9539E-03 | 3.1304E-01 | -1.2034E-01 |
| 122.469 | -0.077 | -0.08670828 | 1.18606061 | -2.2885E-02 | 3.1304E-01 | 1.2263E-01 |
| 122.638 | -0.072 | 0.06419409 | 1.18605650 | 1.6943E-02 | 3.1304E-01 | 3.4334E-01 |
| 122.815 | -0.072 | 0.06419409 | 1.18605650 | 1.6943E-02 | 3.1304E-01 | 5.5526E-01 |
| 123.001 | -0.076 | -0.05652781 | 1.18605538 | -1.4919E-02 | 3.1304E-01 | 7.2421E-01 |
| 123.194 | -0.070 | 0.12455503 | 1.18607030 | 3.2874E-02 | 3.1304E-01 | 8.4149E-01 |
| 123.396 | -0.084 | -0.29797159 | 1.18615906 | -7.8644E-02 | 3.1305E-01 | 8.6676E-01 |
| 123.606 | -0.088 | -0.41869349 | 1.18626385 | -1.1051E-01 | 3.1306E-01 | 7.9909E-01 |
| 123.823 | -0.079 | -0.14706923 | 1.18607771 | -3.8816E-02 | 3.1304E-01 | 7.3146E-01 |
| 124.048 | -0.073 | 0.03401361 | 1.18605291 | 8.9772E-03 | 3.1304E-01 | 6.4297E-01 |
| 124.280 | -0.063 | 0.33581835 | 1.18618811 | 8.8633E-02 | 3.1305E-01 | 5.4102E-01 |
| 124.519 | -0.065 | 0.27545740 | 1.18614342 | 7.2702E-02 | 3.1305E-01 | 4.5717E-01 |
| 124.765 | -0.073 | 0.03401361 | 1.18605291 | 8.9772E-03 | 3.1304E-01 | 3.6800E-01 |
| 125.017 | -0.073 | 0.03401361 | 1.18605291 | 8.9772E-03 | 3.1304E-01 | 2.7274E-01 |
| 125.275 | -0.071 | 0.09437456 | 1.18606230 | 2.4908E-02 | 3.1304E-01 | 1.9139E-01 |
| 125.539 | -0.067 | 0.21509645 | 1.18610755 | 5.6771E-02 | 3.1304E-01 | 1.4859E-01 |
| 125.809 | -0.076 | -0.05652781 | 1.18605538 | -1.4919E-02 | 3.1304E-01 | 7.0758E-02 |
| 126.084 | -0.081 | -0.20743017 | 1.18610363 | -5.4747E-02 | 3.1304E-01 | 4.8184E-02 |
| 126.364 | -0.084 | -0.29797159 | 1.18615906 | -7.8644E-02 | 3.1305E-01 | 5.3540E-02 |
| 126.649 | -0.085 | -0.32815207 | 1.18618195 | -8.6609E-02 | 3.1305E-01 | 3.2906E-02 |
| 126.938 | -0.083 | -0.26779112 | 1.18613837 | -7.0678E-02 | 3.1305E-01 | 3.7459E-03 |

| | |
|-----------------|------------|
| Skala Eichen | |
| mittelwert uq | -0.0741270 |
| fehler sigma uq | 0.0253847 |

| | |
|-----------------|-------------------------|
| Masse der Probe | |
| Dichte | 8.219 g/cm ³ |
| Volumen | 0.0025 cm ³ |
| Masse | 0.0205 g |

| | |
|-----------|------------|
| sigma min | -4.69E-001 |
| sigma max | 1.84E+000 |

Tb warm, B=50G, kalt, senkrecht

| # T [K] | U [V] | B[G] | syst Fehler vo | sigma | Fehler | dB/dT |
|---------|-------|-------------|----------------|------------|------------|-------------|
| 83.658 | 2.017 | 25.73256429 | 1.93243090 | 6.7916E+00 | 4.3572E-01 | |
| 83.657 | 1.948 | 23.65011162 | 1.85439535 | 6.2420E+00 | 4.2448E-01 | |
| 83.657 | 2.011 | 25.55148145 | 1.92551384 | 6.7438E+00 | 4.3471E-01 | |
| 83.658 | 2.024 | 25.94382760 | 1.94053102 | 6.8474E+00 | 4.3689E-01 | |
| 83.659 | 2.043 | 26.51725660 | 1.96267793 | 6.9987E+00 | 4.4012E-01 | |
| 83.661 | 2.040 | 26.42671518 | 1.95916563 | 6.9748E+00 | 4.3961E-01 | |
| 83.663 | 2.032 | 26.18527139 | 1.94982763 | 6.9111E+00 | 4.3825E-01 | |
| 83.664 | 2.095 | 28.08664122 | 2.02443864 | 7.4129E+00 | 4.4918E-01 | |
| 83.666 | 2.105 | 28.38844595 | 2.03649940 | 7.4926E+00 | 4.5096E-01 | |
| 83.667 | 2.080 | 27.63393411 | 2.00645616 | 7.2934E+00 | 4.4653E-01 | |
| 83.669 | 2.079 | 27.60375364 | 2.00526203 | 7.2855E+00 | 4.4636E-01 | |
| 83.670 | 2.076 | 27.51321222 | 2.00168323 | 7.2616E+00 | 4.4583E-01 | |
| 83.670 | 2.070 | 27.33212938 | 1.99454180 | 7.2138E+00 | 4.4478E-01 | |
| 83.670 | 2.065 | 27.18122701 | 1.98860722 | 7.1740E+00 | 4.4391E-01 | |
| 83.669 | 2.059 | 27.00014417 | 1.98150584 | 7.1262E+00 | 4.4287E-01 | |
| 83.668 | 2.058 | 26.96996370 | 1.98032443 | 7.1182E+00 | 4.4270E-01 | |
| 83.666 | 2.063 | 27.12086607 | 1.98623764 | 7.1580E+00 | 4.4356E-01 | |
| 83.666 | 2.070 | 27.33212938 | 1.99454180 | 7.2138E+00 | 4.4478E-01 | |
| 83.665 | 2.091 | 27.96591932 | 2.01963045 | 7.3811E+00 | 4.4847E-01 | |
| 83.663 | 2.113 | 28.62988974 | 2.04618892 | 7.5563E+00 | 4.5239E-01 | |
| 83.661 | 2.109 | 28.50916784 | 2.04133965 | 7.5244E+00 | 4.5168E-01 | |
| 83.657 | 2.109 | 28.50916784 | 2.04133965 | 7.5244E+00 | 4.5168E-01 | -6.3141E+03 |
| 83.653 | 2.099 | 28.20736311 | 2.02925607 | 7.4448E+00 | 4.4989E-01 | -1.7237E+04 |
| 83.648 | 2.091 | 27.96591932 | 2.01963045 | 7.3811E+00 | 4.4847E-01 | 1.6538E+04 |
| 83.644 | 2.084 | 27.75465601 | 2.01123858 | 7.3253E+00 | 4.4724E-01 | 5.2701E+03 |
| 83.641 | 2.081 | 27.66411459 | 2.00765087 | 7.3014E+00 | 4.4671E-01 | 3.1515E+03 |
| 83.641 | 2.077 | 27.54339269 | 2.00287557 | 7.2696E+00 | 4.4601E-01 | 2.3031E+03 |
| 83.643 | 2.089 | 27.90555837 | 2.01722985 | 7.3651E+00 | 4.4812E-01 | 1.9093E+03 |
| 83.646 | 2.085 | 27.78483648 | 2.01243566 | 7.3333E+00 | 4.4741E-01 | 1.6792E+03 |
| 83.654 | 2.089 | 27.90555837 | 2.01722985 | 7.3651E+00 | 4.4812E-01 | 1.5770E+03 |
| 83.666 | 2.099 | 28.20736311 | 2.02925607 | 7.4448E+00 | 4.4989E-01 | 1.6274E+03 |
| 83.680 | 2.098 | 28.17718264 | 2.02805084 | 7.4368E+00 | 4.4971E-01 | 1.8765E+03 |
| 83.697 | 2.104 | 28.35826548 | 2.03529075 | 7.4846E+00 | 4.5078E-01 | 2.7428E+03 |
| 83.716 | 2.123 | 28.93169447 | 2.05835113 | 7.6360E+00 | 4.5420E-01 | 9.5517E+03 |
| 83.737 | 2.116 | 28.72043116 | 2.04983176 | 7.5802E+00 | 4.5293E-01 | -3.8376E+03 |
| 83.759 | 2.113 | 28.62988974 | 2.04618892 | 7.5563E+00 | 4.5239E-01 | -1.3626E+03 |
| 83.783 | 2.107 | 28.44880690 | 2.03891839 | 7.5085E+00 | 4.5132E-01 | -7.5799E+02 |
| 83.807 | 2.095 | 28.08664122 | 2.02443864 | 7.4129E+00 | 4.4918E-01 | -4.9865E+02 |
| 83.833 | 2.099 | 28.20736311 | 2.02925607 | 7.4448E+00 | 4.4989E-01 | -3.5860E+02 |
| 83.859 | 2.096 | 28.11682169 | 2.02564213 | 7.4209E+00 | 4.4936E-01 | -2.7140E+02 |
| 83.890 | 2.085 | 27.78483648 | 2.01243566 | 7.3333E+00 | 4.4741E-01 | -2.1334E+02 |
| 83.937 | 2.087 | 27.84519743 | 2.01483158 | 7.3492E+00 | 4.4776E-01 | -1.7115E+02 |
| 84.012 | 2.077 | 27.54339269 | 2.00287557 | 7.2696E+00 | 4.4601E-01 | -1.3741E+02 |
| 84.119 | 2.061 | 27.06050512 | 1.98387051 | 7.1421E+00 | 4.4322E-01 | -1.0920E+02 |
| 84.260 | 2.052 | 26.7888086 | 1.97324895 | 7.0704E+00 | 4.4166E-01 | -8.5378E+01 |
| 84.433 | 2.058 | 26.96996370 | 1.98032443 | 7.1182E+00 | 4.4270E-01 | -6.5091E+01 |
| 84.640 | 2.067 | 27.24158796 | 1.99097923 | 7.1899E+00 | 4.4426E-01 | -4.8052E+01 |
| 84.877 | 2.070 | 27.33212938 | 1.99454180 | 7.2138E+00 | 4.4478E-01 | -3.4025E+01 |
| 85.142 | 2.071 | 27.36230985 | 1.99573054 | 7.2218E+00 | 4.4496E-01 | -2.2596E+01 |
| 85.435 | 2.086 | 27.81501695 | 2.01363332 | 7.3412E+00 | 4.4759E-01 | -1.3400E+01 |
| 85.755 | 2.084 | 27.75465601 | 2.01123858 | 7.3253E+00 | 4.4724E-01 | -6.0844E+00 |
| 86.097 | 2.086 | 27.81501695 | 2.01363332 | 7.3412E+00 | 4.4759E-01 | -2.1856E-01 |
| 86.463 | 2.095 | 28.08664122 | 2.02443864 | 7.4129E+00 | 4.4918E-01 | 4.4335E+00 |
| 86.850 | 2.093 | 28.02628027 | 2.02203338 | 7.3970E+00 | 4.4883E-01 | 8.1101E+00 |
| 87.257 | 2.089 | 27.90555837 | 2.01722985 | 7.3651E+00 | 4.4812E-01 | 1.1060E+01 |
| 87.681 | 2.074 | 27.45285127 | 1.99930035 | 7.2457E+00 | 4.4548E-01 | 1.3413E+01 |
| 88.121 | 2.071 | 27.36230985 | 1.99573054 | 7.2218E+00 | 4.4496E-01 | 1.5246E+01 |
| 88.577 | 2.071 | 27.36230985 | 1.99573054 | 7.2218E+00 | 4.4496E-01 | 1.6676E+01 |
| 89.046 | 2.072 | 27.39249033 | 1.99691988 | 7.2297E+00 | 4.4513E-01 | 1.7816E+01 |
| 89.528 | 2.066 | 27.21140749 | 1.98979292 | 7.1819E+00 | 4.4409E-01 | 1.8713E+01 |
| 90.021 | 2.068 | 27.27176843 | 1.99216615 | 7.1979E+00 | 4.4443E-01 | 1.9399E+01 |
| 90.523 | 2.074 | 27.45285127 | 1.99930035 | 7.2457E+00 | 4.4548E-01 | 1.9975E+01 |
| 91.035 | 2.076 | 27.51321222 | 2.00168323 | 7.2616E+00 | 4.4583E-01 | 2.0437E+01 |
| 91.555 | 2.080 | 27.63393411 | 2.00645616 | 7.2934E+00 | 4.4653E-01 | 2.0796E+01 |
| 92.082 | 2.074 | 27.45285127 | 1.99930035 | 7.2457E+00 | 4.4548E-01 | 2.1073E+01 |
| 92.616 | 2.072 | 27.39249033 | 1.99691988 | 7.2297E+00 | 4.4513E-01 | 2.1295E+01 |
| 93.156 | 2.067 | 27.24158796 | 1.99097923 | 7.1899E+00 | 4.4426E-01 | 2.1506E+01 |
| 93.701 | 2.066 | 27.21140749 | 1.98979292 | 7.1819E+00 | 4.4409E-01 | 2.1693E+01 |
| 94.251 | 2.070 | 27.33212938 | 1.99454180 | 7.2138E+00 | 4.4478E-01 | 2.1867E+01 |
| 94.804 | 2.078 | 27.57357317 | 2.00406850 | 7.2775E+00 | 4.4618E-01 | 2.2036E+01 |
| 95.360 | 2.081 | 27.66411459 | 2.00765087 | 7.3014E+00 | 4.4671E-01 | 2.2213E+01 |
| 95.921 | 2.078 | 27.57357317 | 2.00406850 | 7.2775E+00 | 4.4618E-01 | 2.2364E+01 |
| 96.484 | 2.070 | 27.33212938 | 1.99454180 | 7.2138E+00 | 4.4478E-01 | 2.2458E+01 |

| | |
|----------------|-----------|
| Skala Eichen | |
| mittelwert uq | 1.1643770 |
| fehler sigmaud | 0.0333282 |

| | | |
|--------------------|-------------|-----------|
| Lineare Regression | | |
| Curie-Temperatur | | |
| B(U)=a*U+b | a | b |
| Werte: | -2.46E-01 | 5.74E+01 |
| Standardfehler | 7.64E-03 | 1.72E+00 |
| Bestimmtheits | 0.941108 | 0.205508 |
| F-Wert der Va | 1038.720582 | 65.000000 |
| Abweichung | 43.868748 | 2.745174 |

| | | | |
|--------------|------|--------------|--------------|
| | Wert | stat. Fehler | syst. Fehler |
| Curie-Temper | 233 | 10 | 0.03 |

| | |
|-----------------|-------------|
| Masse der Probe | |
| Dichte | 8.219g/cm^3 |
| Volumen | 0.0025Cm^3 |
| Masse | 0.0205g |

| | |
|-----------|------------|
| sigma min | -6.00E-001 |
| sigma max | 7.64E+000 |

Tb warm, B=150G, kalt, senkrecht

| # T [K] | U [V] | B[G] | syst Fehler vo | sigma | Fehler | dB/dT |
|---------|--------|-------------|----------------|------------|------------|-------------|
| 84.724 | -0.058 | 72.80753014 | 4.07715421 | 1.9216E+01 | 7.7159E-01 | |
| 84.631 | -0.069 | 72.47554493 | 4.06012192 | 1.9129E+01 | 7.6864E-01 | |
| 84.584 | -0.073 | 72.35482304 | 4.05392999 | 1.9097E+01 | 7.6757E-01 | |
| 84.538 | -0.076 | 72.26428162 | 4.04928662 | 1.9073E+01 | 7.6677E-01 | |
| 84.493 | -0.079 | 72.17374020 | 4.04464374 | 1.9049E+01 | 7.6597E-01 | |
| 84.450 | -0.077 | 72.23410115 | 4.04773894 | 1.9065E+01 | 7.6650E-01 | |
| 84.409 | -0.078 | 72.20392067 | 4.04619131 | 1.9057E+01 | 7.6623E-01 | |
| 84.369 | -0.069 | 72.47554493 | 4.06012192 | 1.9129E+01 | 7.6864E-01 | |
| 84.332 | -0.044 | 73.23005677 | 4.09884104 | 1.9328E+01 | 7.7534E-01 | |
| 84.297 | -0.046 | 73.16969582 | 4.09574229 | 1.9312E+01 | 7.7480E-01 | |
| 84.263 | -0.054 | 72.92825204 | 4.08334938 | 1.9248E+01 | 7.7266E-01 | |
| 84.232 | -0.051 | 73.01879346 | 4.08799632 | 1.9272E+01 | 7.7346E-01 | |
| 84.203 | -0.056 | 72.86789109 | 4.08025169 | 1.9232E+01 | 7.7212E-01 | |
| 84.176 | -0.062 | 72.68680825 | 4.07095989 | 1.9184E+01 | 7.7051E-01 | |
| 84.151 | -0.070 | 72.44536446 | 4.05857386 | 1.9121E+01 | 7.6837E-01 | |
| 84.127 | -0.075 | 72.29446209 | 4.05083436 | 1.9081E+01 | 7.6704E-01 | |
| 84.104 | -0.074 | 72.32464257 | 4.05238215 | 1.9089E+01 | 7.6730E-01 | |
| 84.084 | -0.077 | 72.23410115 | 4.04773894 | 1.9065E+01 | 7.6650E-01 | |
| 84.064 | -0.062 | 72.68680825 | 4.07095989 | 1.9184E+01 | 7.7051E-01 | |
| 84.047 | -0.060 | 72.74716920 | 4.07405694 | 1.9200E+01 | 7.7105E-01 | |
| 84.031 | -0.060 | 72.74716920 | 4.07405694 | 1.9200E+01 | 7.7105E-01 | |
| 84.016 | -0.073 | 72.35482304 | 4.05392999 | 1.9097E+01 | 7.6757E-01 | 2.7967E+02 |
| 84.001 | -0.077 | 72.23410115 | 4.04773894 | 1.9065E+01 | 7.6650E-01 | 2.9470E+02 |
| 83.986 | -0.076 | 72.26428162 | 4.04928662 | 1.9073E+01 | 7.6677E-01 | 3.0861E+02 |
| 83.971 | -0.077 | 72.23410115 | 4.04773894 | 1.9065E+01 | 7.6650E-01 | 3.2375E+02 |
| 83.956 | -0.077 | 72.23410115 | 4.04773894 | 1.9065E+01 | 7.6650E-01 | 3.3994E+02 |
| 83.942 | -0.085 | 71.99265736 | 4.03535947 | 1.9001E+01 | 7.6436E-01 | 3.5721E+02 |
| 83.929 | -0.092 | 71.78139405 | 4.02453033 | 1.8945E+01 | 7.6249E-01 | 3.7567E+02 |
| 83.919 | -0.092 | 71.78139405 | 4.02453033 | 1.8945E+01 | 7.6249E-01 | 3.9525E+02 |
| 83.913 | -0.090 | 71.84175499 | 4.02762409 | 1.8961E+01 | 7.6303E-01 | 4.1668E+02 |
| 83.912 | -0.089 | 71.87193547 | 4.02917106 | 1.8969E+01 | 7.6329E-01 | 4.4017E+02 |
| 83.917 | -0.086 | 71.96247689 | 4.03381228 | 1.8993E+01 | 7.6409E-01 | 4.6759E+02 |
| 83.928 | -0.082 | 72.08319878 | 4.04000135 | 1.9025E+01 | 7.6516E-01 | 5.0105E+02 |
| 83.949 | -0.074 | 72.32464257 | 4.05238215 | 1.9089E+01 | 7.6730E-01 | 5.4625E+02 |
| 83.993 | -0.071 | 72.41518399 | 4.05702585 | 1.9113E+01 | 7.6811E-01 | 6.1870E+02 |
| 84.064 | -0.064 | 72.62644730 | 4.06786306 | 1.9168E+01 | 7.6998E-01 | 7.5878E+02 |
| 84.163 | -0.060 | 72.74716920 | 4.07405694 | 1.9200E+01 | 7.7105E-01 | 1.1227E+03 |
| 84.287 | -0.058 | 72.80753014 | 4.07715421 | 1.9216E+01 | 7.7159E-01 | 3.5637E+03 |
| 84.435 | -0.063 | 72.65662778 | 4.06941145 | 1.9176E+01 | 7.7025E-01 | -1.6838E+03 |
| 84.606 | -0.065 | 72.59626683 | 4.06631472 | 1.9160E+01 | 7.6971E-01 | -5.3688E+02 |
| 84.799 | -0.056 | 72.86789109 | 4.08025169 | 1.9232E+01 | 7.7212E-01 | -2.6667E+02 |
| 85.013 | -0.061 | 72.71698872 | 4.07250839 | 1.9192E+01 | 7.7078E-01 | -1.4920E+02 |
| 85.247 | -0.064 | 72.62644730 | 4.06786306 | 1.9168E+01 | 7.6998E-01 | -8.5228E+01 |
| 85.500 | -0.067 | 72.53590588 | 4.06321822 | 1.9144E+01 | 7.6918E-01 | -4.5940E+01 |
| 85.773 | -0.064 | 72.62644730 | 4.06786306 | 1.9168E+01 | 7.6998E-01 | -1.9932E+01 |
| 86.063 | -0.061 | 72.71698872 | 4.07250839 | 1.9192E+01 | 7.7078E-01 | -1.9344E+00 |
| 86.370 | -0.066 | 72.56608636 | 4.06476644 | 1.9152E+01 | 7.6944E-01 | 1.0896E+01 |
| 86.693 | -0.065 | 72.59626683 | 4.06631472 | 1.9160E+01 | 7.6971E-01 | 2.0318E+01 |
| 87.030 | -0.065 | 72.59626683 | 4.06631472 | 1.9160E+01 | 7.6971E-01 | 2.7403E+01 |
| 87.381 | -0.064 | 72.62644730 | 4.06786306 | 1.9168E+01 | 7.6998E-01 | 3.2877E+01 |
| 87.745 | -0.073 | 72.35482304 | 4.05392999 | 1.9097E+01 | 7.6757E-01 | 3.7163E+01 |
| 88.119 | -0.079 | 72.17374020 | 4.04464374 | 1.9049E+01 | 7.6597E-01 | 4.0527E+01 |
| 88.506 | -0.077 | 72.23410115 | 4.04773894 | 1.9065E+01 | 7.6650E-01 | 4.3261E+01 |
| 88.901 | -0.075 | 72.29446209 | 4.05083436 | 1.9081E+01 | 7.6704E-01 | 4.5506E+01 |
| 89.306 | -0.088 | 71.90211594 | 4.03071808 | 1.8977E+01 | 7.6356E-01 | 4.7327E+01 |
| 90.382 | -0.088 | 71.90211594 | 4.03071808 | 1.8977E+01 | 7.6356E-01 | 4.9272E+01 |
| 90.815 | -0.081 | 72.11337925 | 4.04154876 | 1.9033E+01 | 7.6543E-01 | 5.0869E+01 |
| 91.254 | -0.086 | 71.96247689 | 4.03381228 | 1.8993E+01 | 7.6409E-01 | 5.2202E+01 |
| 91.698 | -0.096 | 71.66067215 | 4.01834349 | 1.8913E+01 | 7.6142E-01 | 5.3292E+01 |
| 92.147 | -0.099 | 71.57013073 | 4.01370394 | 1.8890E+01 | 7.6062E-01 | 5.4205E+01 |
| 92.601 | -0.100 | 71.53995026 | 4.01215754 | 1.8882E+01 | 7.6035E-01 | 5.4972E+01 |
| 93.059 | -0.099 | 71.57013073 | 4.01370394 | 1.8890E+01 | 7.6062E-01 | 5.5657E+01 |
| 93.519 | -0.098 | 71.60031121 | 4.01525040 | 1.8898E+01 | 7.6089E-01 | 5.6278E+01 |
| 93.983 | -0.102 | 71.47958931 | 4.00906490 | 1.8866E+01 | 7.5982E-01 | 5.6799E+01 |
| 94.450 | -0.108 | 71.29850647 | 3.99978834 | 1.8818E+01 | 7.5822E-01 | 5.7229E+01 |
| 94.919 | -0.117 | 71.02688221 | 3.98587736 | 1.8746E+01 | 7.5582E-01 | 5.7620E+01 |
| 95.391 | -0.131 | 70.60435558 | 3.96424732 | 1.8635E+01 | 7.5209E-01 | 5.7612E+01 |
| 96.030 | -0.140 | 70.33273132 | 3.95034833 | 1.8563E+01 | 7.4969E-01 | 5.7572E+01 |
| 96.674 | -0.144 | 70.21200943 | 3.94417253 | 1.8531E+01 | 7.4862E-01 | 5.7549E+01 |
| 96.980 | -0.153 | 69.94038517 | 3.93028046 | 1.8459E+01 | 7.4623E-01 | 5.7473E+01 |
| 97.457 | -0.160 | 69.72912186 | 3.91947888 | 1.8404E+01 | 7.4437E-01 | 5.7368E+01 |
| 97.934 | -0.166 | 69.54803901 | 3.91022273 | 1.8356E+01 | 7.4277E-01 | 5.7231E+01 |
| 98.412 | -0.170 | 69.42731712 | 3.90405319 | 1.8324E+01 | 7.4171E-01 | 5.7058E+01 |

| | |
|----------------|------------|
| Skala Eichen | |
| mittelwert uq | -2.4704052 |
| fehler sigmaud | 0.0250360 |

| | | |
|--------------------|--------------|-----------|
| Lineare Regression | | |
| Curie-Temperatur | | |
| B(U)=a*U+b | a | b |
| Werte: | -5.15E-01 | 1.21E+02 |
| Standardfehler | 3.43E-03 | 7.80E-01 |
| Bestimmtheits | 0.995892 | 0.138569 |
| F-Wert der Va | 22544.238713 | 93.000000 |
| Abweichung [s | 432.877820 | 1.785717 |

| | | |
|--------------|--------------|--------------|
| Wert | stat. Fehler | syst. Fehler |
| Curie-Temper | 234 | 2 0.03 |

| | |
|-----------------|--------------|
| Masse der Probe | |
| Dichte | 8.219 g/cm^3 |
| Volumen | 0.0025 Cm^3 |
| Masse | 0.0205 g |

| | |
|-----------|------------|
| sigma min | -3.79E-001 |
| sigma max | 1.93E+001 |

Tb warm, B=50G, kalt, parallel

| #T [K] | U [V] | B[G] | syst Fehler vo | sigma | Fehler | dB/dT |
|---------|-------|--------------|----------------|------------|------------|------------|
| 101.871 | 4.386 | 97.44590356 | 5.32425883 | 9.4734E+00 | 1.7275E-01 | |
| 101.918 | 4.377 | 97.17427930 | 5.30997422 | 9.4470E+00 | 1.7243E-01 | |
| 101.973 | 4.369 | 96.93283551 | 5.29727805 | 9.4235E+00 | 1.7214E-01 | |
| 102.038 | 4.362 | 96.72157220 | 5.28616988 | 9.4030E+00 | 1.7189E-01 | |
| 102.110 | 4.353 | 96.44994794 | 5.27188930 | 9.3766E+00 | 1.7158E-01 | |
| 102.189 | 4.352 | 96.41976747 | 5.27030267 | 9.3737E+00 | 1.7154E-01 | |
| 102.275 | 4.354 | 96.48012841 | 5.27347596 | 9.3795E+00 | 1.7161E-01 | |
| 102.409 | 4.349 | 96.32922605 | 5.26554287 | 9.3649E+00 | 1.7143E-01 | |
| 102.548 | 4.344 | 96.17832368 | 5.25761026 | 9.3502E+00 | 1.7126E-01 | |
| 102.689 | 4.348 | 96.29904557 | 5.26395631 | 9.3619E+00 | 1.7140E-01 | |
| 102.783 | 4.350 | 96.35940652 | 5.26712945 | 9.3678E+00 | 1.7147E-01 | |
| 102.877 | 4.356 | 96.54048936 | 5.27664932 | 9.3854E+00 | 1.7168E-01 | |
| 102.970 | 4.364 | 96.78193315 | 5.28934355 | 9.4089E+00 | 1.7197E-01 | |
| 103.062 | 4.360 | 96.66121125 | 5.28299628 | 9.3971E+00 | 1.7182E-01 | |
| 103.153 | 4.354 | 96.48012841 | 5.27347596 | 9.3795E+00 | 1.7161E-01 | |
| 103.243 | 4.353 | 96.44994794 | 5.27188930 | 9.3766E+00 | 1.7158E-01 | |
| 103.332 | 4.350 | 96.35940652 | 5.26712945 | 9.3678E+00 | 1.7147E-01 | |
| 103.462 | 4.355 | 96.51030889 | 5.27506263 | 9.3825E+00 | 1.7165E-01 | |
| 103.590 | 4.352 | 96.41976747 | 5.27030267 | 9.3737E+00 | 1.7154E-01 | |
| 103.715 | 4.349 | 96.32922605 | 5.26554287 | 9.3649E+00 | 1.7143E-01 | |
| 103.796 | 4.355 | 96.51030889 | 5.27506263 | 9.3825E+00 | 1.7165E-01 | |
| 103.877 | 4.353 | 96.44994794 | 5.27188930 | 9.3766E+00 | 1.7158E-01 | 9.9106E+00 |
| 103.956 | 4.362 | 96.72157220 | 5.28616988 | 9.4030E+00 | 1.7189E-01 | 1.0512E+01 |
| 104.035 | 4.358 | 96.60085031 | 5.27982277 | 9.3913E+00 | 1.7175E-01 | 1.0618E+01 |
| 104.112 | 4.348 | 96.29904557 | 5.26395631 | 9.3619E+00 | 1.7140E-01 | 1.0335E+01 |
| 104.188 | 4.358 | 96.60085031 | 5.27982277 | 9.3913E+00 | 1.7175E-01 | 9.8031E+00 |
| 104.263 | 4.366 | 96.84229409 | 5.29251729 | 9.4147E+00 | 1.7204E-01 | 9.0312E+00 |
| 104.377 | 4.371 | 96.99319646 | 5.30045198 | 9.4294E+00 | 1.7221E-01 | 8.3812E+00 |
| 104.508 | 4.374 | 97.08373788 | 5.30521301 | 9.4382E+00 | 1.7232E-01 | 7.3849E+00 |
| 104.672 | 4.377 | 97.17427930 | 5.30997422 | 9.4470E+00 | 1.7243E-01 | 6.6965E+00 |
| 104.807 | 4.371 | 96.99319646 | 5.30045198 | 9.4294E+00 | 1.7221E-01 | 6.1678E+00 |
| 104.964 | 4.369 | 96.93283551 | 5.29727805 | 9.4235E+00 | 1.7214E-01 | 6.6575E+00 |
| 105.143 | 4.373 | 97.05355741 | 5.30362598 | 9.4353E+00 | 1.7228E-01 | 8.0023E+00 |
| 105.346 | 4.380 | 97.26482072 | 5.31473559 | 9.4558E+00 | 1.7253E-01 | 1.0291E+01 |
| 105.572 | 4.386 | 97.44590356 | 5.32425883 | 9.4734E+00 | 1.7275E-01 | 1.3593E+01 |
| 105.822 | 4.417 | 98.38149824 | 5.37347271 | 9.5644E+00 | 1.7385E-01 | 1.7918E+01 |
| 106.095 | 4.434 | 98.89456628 | 5.40046831 | 9.6142E+00 | 1.7445E-01 | 2.2963E+01 |
| 106.540 | 4.465 | 99.83016096 | 5.44970864 | 9.7052E+00 | 1.7556E-01 | 2.9236E+01 |
| 107.022 | 4.483 | 100.37340948 | 5.47830740 | 9.7580E+00 | 1.7621E-01 | 3.5899E+01 |
| 107.530 | 4.455 | 99.52835623 | 5.43382284 | 9.6759E+00 | 1.7521E-01 | 4.2512E+01 |
| 107.881 | 4.439 | 99.04546865 | 5.40840916 | 9.6289E+00 | 1.7463E-01 | 4.8225E+01 |
| 108.238 | 4.364 | 96.78193315 | 5.28934355 | 9.4089E+00 | 1.7197E-01 | 5.3152E+01 |
| 108.598 | 4.332 | 95.81615800 | 5.23857395 | 9.3150E+00 | 1.7083E-01 | 5.7314E+01 |
| 108.960 | 4.310 | 95.15218758 | 5.20368130 | 9.2504E+00 | 1.7006E-01 | 6.0771E+01 |
| 109.319 | 4.303 | 94.94092427 | 5.19258109 | 9.2299E+00 | 1.6981E-01 | 6.3632E+01 |
| 109.674 | 4.307 | 95.06164616 | 5.19892395 | 9.2416E+00 | 1.6995E-01 | 6.5992E+01 |
| 110.198 | 4.288 | 94.48821717 | 5.16879820 | 9.1859E+00 | 1.6928E-01 | 6.7897E+01 |
| 110.711 | 4.276 | 94.12605149 | 5.14977514 | 9.1507E+00 | 1.6886E-01 | 6.9440E+01 |
| 111.210 | 4.262 | 93.70352486 | 5.12758528 | 9.1096E+00 | 1.6837E-01 | 7.0391E+01 |
| 111.538 | 4.251 | 93.37153965 | 5.11015322 | 9.0773E+00 | 1.6799E-01 | 7.0793E+01 |
| 111.859 | 4.241 | 93.06973492 | 5.09430807 | 9.0480E+00 | 1.6764E-01 | 7.0878E+01 |
| 112.176 | 4.236 | 92.91883255 | 5.08638629 | 9.0333E+00 | 1.6746E-01 | 7.0854E+01 |
| 112.489 | 4.224 | 92.55666687 | 5.06737616 | 8.9981E+00 | 1.6704E-01 | 7.0890E+01 |
| 112.797 | 4.217 | 92.34540356 | 5.05628834 | 8.9776E+00 | 1.6680E-01 | 7.0877E+01 |
| 113.100 | 4.218 | 92.37558403 | 5.05787225 | 8.9805E+00 | 1.6683E-01 | 7.0820E+01 |
| 113.395 | 4.240 | 93.03955444 | 5.09272367 | 9.0450E+00 | 1.6760E-01 | 7.0745E+01 |
| 113.815 | 4.243 | 93.13009586 | 5.09747693 | 9.0538E+00 | 1.6771E-01 | 7.0639E+01 |
| 114.213 | 4.251 | 93.37153965 | 5.11015322 | 9.0773E+00 | 1.6799E-01 | 7.0447E+01 |
| 114.587 | 4.243 | 93.13009586 | 5.09747693 | 9.0538E+00 | 1.6771E-01 | 7.0099E+01 |
| 114.824 | 4.247 | 93.25081776 | 5.10381491 | 9.0656E+00 | 1.6785E-01 | 6.9660E+01 |
| 115.053 | 4.249 | 93.31117870 | 5.10698402 | 9.0714E+00 | 1.6792E-01 | 6.9288E+01 |
| 115.272 | 4.257 | 93.55262249 | 5.11966130 | 9.0949E+00 | 1.6820E-01 | 6.8982E+01 |
| 115.482 | 4.257 | 93.55262249 | 5.11966130 | 9.0949E+00 | 1.6820E-01 | 6.8625E+01 |
| 115.684 | 4.252 | 93.40172013 | 5.11173785 | 9.0802E+00 | 1.6802E-01 | 6.8182E+01 |
| 115.878 | 4.250 | 93.34135918 | 5.10856861 | 9.0744E+00 | 1.6795E-01 | 6.7668E+01 |
| 116.066 | 4.253 | 93.43190060 | 5.11332250 | 9.0832E+00 | 1.6806E-01 | 6.7069E+01 |
| 116.336 | 4.259 | 93.61298344 | 5.12283083 | 9.1008E+00 | 1.6827E-01 | 6.6388E+01 |
| 116.595 | 4.259 | 93.61298344 | 5.12283083 | 9.1008E+00 | 1.6827E-01 | 6.5484E+01 |
| 116.843 | 4.254 | 93.46208107 | 5.11490717 | 9.0861E+00 | 1.6809E-01 | 6.4429E+01 |
| 117.003 | 4.248 | 93.28099823 | 5.10539945 | 9.0685E+00 | 1.6788E-01 | 6.3222E+01 |
| 117.160 | 4.232 | 92.79811066 | 5.08004924 | 9.0216E+00 | 1.6732E-01 | 6.2009E+01 |
| 117.312 | 4.235 | 92.88865208 | 5.08480199 | 9.0304E+00 | 1.6743E-01 | 6.0714E+01 |
| 117.461 | 4.215 | 92.28504261 | 5.05312058 | 8.9717E+00 | 1.6673E-01 | 5.9255E+01 |

| | |
|-----------------|-----------|
| Skala Eichen | |
| mittelwert uq | 1.1572268 |
| fehler sigma uq | 0.0162868 |

| | | |
|--------------------|-------------|-----------|
| Lineare Regression | | |
| Curie-Temperatur | | |
| B(U)=a*U+b | a | b |
| Werte: | -2.60E-01 | 6.11E+01 |
| Standardfehler | 3.84E-03 | 8.71E-01 |
| Bestimmtheits | 0.980914 | 0.144053 |
| F-Wert der Va | 4574.027637 | 89.000000 |
| Abweichung [s | 94.917487 | 1.846875 |

| | | | |
|--------------|------|--------------|--------------|
| | Wert | stat. Fehler | syst. Fehler |
| Curie-Temper | 235 | 5 | 0.02 |

| | |
|-----------------|-------------|
| Masse der Probe | |
| Dichte | 8.219g/cm^3 |
| Volumen | 0.0025Cm^3 |
| Masse | 0.0205g |

| | |
|-----------|------------|
| sigma min | -9.16E-002 |
| sigma max | 9.76E+000 |

| | | | | |
|----------|-------------|--------------|--------------|-------|
| neukurve | sigmamittel | stat. Fehler | syst. Fehler | T[K] |
| | 7.90E+000 | 0.08 | 0.74 | 162 |
| | 5.79E+000 | 0.1 | 0.7 | 202 |
| | 8.92E+000 | 0.05 | 0.97 | 122.5 |

6_Tb_warm_B75

Tb warm, B=75G, kalt parallel

| #T [K] | U [V] | B[G] | syst Fehler vo | sigma | Fehler |
|--------|-------|--------------|----------------|------------|------------|
| 85.162 | 5.552 | 132.28598582 | 7.16396297 | 1.2860E+01 | 2.1518E-01 |
| 85.251 | 5.547 | 132.13508346 | 7.15595597 | 1.2846E+01 | 2.1499E-01 |
| 85.396 | 5.541 | 131.95400062 | 7.14634782 | 1.2828E+01 | 2.1476E-01 |
| 85.549 | 5.557 | 132.43688819 | 7.17197015 | 1.2875E+01 | 2.1538E-01 |
| 85.707 | 5.563 | 132.61797103 | 7.18157901 | 1.2893E+01 | 2.1561E-01 |
| 85.815 | 5.564 | 132.64815151 | 7.18318052 | 1.2896E+01 | 2.1565E-01 |
| 85.924 | 5.567 | 132.73869293 | 7.18798507 | 1.2904E+01 | 2.1576E-01 |
| 86.035 | 5.550 | 132.22562488 | 7.16076015 | 1.2855E+01 | 2.1511E-01 |
| 86.146 | 5.529 | 131.59183494 | 7.12713232 | 1.2793E+01 | 2.1429E-01 |
| 86.259 | 5.526 | 131.50129352 | 7.12232861 | 1.2784E+01 | 2.1418E-01 |
| 86.372 | 5.533 | 131.71255683 | 7.13353737 | 1.2805E+01 | 2.1445E-01 |
| 86.485 | 5.537 | 131.83327872 | 7.13994253 | 1.2816E+01 | 2.1460E-01 |
| 86.649 | 5.547 | 132.13508346 | 7.15595597 | 1.2846E+01 | 2.1499E-01 |
| 86.808 | 5.554 | 132.34634677 | 7.16716582 | 1.2866E+01 | 2.1526E-01 |
| 86.961 | 5.547 | 132.13508346 | 7.15595597 | 1.2846E+01 | 2.1499E-01 |
| 87.061 | 5.526 | 131.50129352 | 7.12232861 | 1.2784E+01 | 2.1418E-01 |
| 87.157 | 5.525 | 131.47111304 | 7.12072739 | 1.2781E+01 | 2.1414E-01 |
| 87.251 | 5.530 | 131.62201541 | 7.12873357 | 1.2796E+01 | 2.1433E-01 |
| 87.342 | 5.539 | 131.89363967 | 7.14314516 | 1.2822E+01 | 2.1468E-01 |
| 87.430 | 5.542 | 131.98418109 | 7.14794916 | 1.2831E+01 | 2.1480E-01 |
| 87.516 | 5.543 | 132.01436156 | 7.14955051 | 1.2834E+01 | 2.1483E-01 |
| 87.600 | 5.556 | 132.40670772 | 7.17036870 | 1.2872E+01 | 2.1534E-01 |
| 87.721 | 5.566 | 132.70851245 | 7.18638354 | 1.2902E+01 | 2.1572E-01 |
| 87.837 | 5.563 | 132.61797103 | 7.18157901 | 1.2893E+01 | 2.1561E-01 |
| 87.949 | 5.556 | 132.40670772 | 7.17036870 | 1.2872E+01 | 2.1534E-01 |
| 88.021 | 5.573 | 132.91977577 | 7.19759437 | 1.2922E+01 | 2.1600E-01 |
| 88.091 | 5.582 | 133.19140003 | 7.21200881 | 1.2948E+01 | 2.1634E-01 |
| 88.160 | 5.577 | 133.04049766 | 7.20400071 | 1.2934E+01 | 2.1615E-01 |
| 88.228 | 5.568 | 132.76887340 | 7.18958660 | 1.2907E+01 | 2.1580E-01 |
| 88.293 | 5.570 | 132.82923435 | 7.19278969 | 1.2913E+01 | 2.1588E-01 |
| 88.358 | 5.580 | 133.13103908 | 7.20880555 | 1.2943E+01 | 2.1627E-01 |
| 88.451 | 5.602 | 133.79500950 | 7.24404299 | 1.3007E+01 | 2.1712E-01 |
| 88.542 | 5.595 | 133.58374618 | 7.23283070 | 1.2987E+01 | 2.1685E-01 |
| 88.631 | 5.588 | 133.37248287 | 7.22161876 | 1.2966E+01 | 2.1658E-01 |
| 88.689 | 5.589 | 133.40266334 | 7.22322044 | 1.2969E+01 | 2.1662E-01 |
| 88.745 | 5.579 | 133.10085861 | 7.20720393 | 1.2940E+01 | 2.1623E-01 |
| 88.801 | 5.576 | 133.01031719 | 7.20239912 | 1.2931E+01 | 2.1611E-01 |
| 88.857 | 5.575 | 132.98013671 | 7.20079753 | 1.2928E+01 | 2.1607E-01 |
| 88.911 | 5.568 | 132.76887340 | 7.18958660 | 1.2907E+01 | 2.1580E-01 |
| 88.965 | 5.581 | 133.16121955 | 7.21040717 | 1.2946E+01 | 2.1631E-01 |
| 89.017 | 5.602 | 133.79500950 | 7.24404299 | 1.3007E+01 | 2.1712E-01 |
| 89.094 | 5.624 | 134.45897991 | 7.27928389 | 1.3072E+01 | 2.1797E-01 |
| 89.168 | 5.612 | 134.09681423 | 7.26006115 | 1.3037E+01 | 2.1751E-01 |
| 89.245 | 5.613 | 134.12699470 | 7.26166301 | 1.3039E+01 | 2.1755E-01 |
| 89.303 | 5.604 | 133.85537044 | 7.24724657 | 1.3013E+01 | 2.1720E-01 |
| 89.370 | 5.588 | 133.37248287 | 7.22161876 | 1.2966E+01 | 2.1658E-01 |
| 89.446 | 5.591 | 133.46302429 | 7.22642383 | 1.2975E+01 | 2.1669E-01 |
| 89.533 | 5.598 | 133.67428760 | 7.23763592 | 1.2995E+01 | 2.1696E-01 |
| 89.629 | 5.590 | 133.43284381 | 7.22482214 | 1.2972E+01 | 2.1665E-01 |
| 89.732 | 5.583 | 133.22158050 | 7.21361045 | 1.2951E+01 | 2.1638E-01 |
| 89.839 | 5.578 | 133.07067813 | 7.20560232 | 1.2937E+01 | 2.1619E-01 |
| 90.001 | 5.579 | 133.10085861 | 7.20720393 | 1.2940E+01 | 2.1623E-01 |
| 90.163 | 5.581 | 133.16121955 | 7.21040717 | 1.2946E+01 | 2.1631E-01 |
| 90.324 | 5.572 | 132.88959529 | 7.19599280 | 1.2919E+01 | 2.1596E-01 |
| 90.430 | 5.554 | 132.34634677 | 7.16716582 | 1.2866E+01 | 2.1526E-01 |
| 90.534 | 5.558 | 132.46706867 | 7.17357161 | 1.2878E+01 | 2.1541E-01 |
| 90.637 | 5.559 | 132.49724914 | 7.17517308 | 1.2881E+01 | 2.1545E-01 |
| 90.738 | 5.563 | 132.61797103 | 7.18157901 | 1.2893E+01 | 2.1561E-01 |
| 90.837 | 5.568 | 132.76887340 | 7.18958660 | 1.2907E+01 | 2.1580E-01 |
| 90.935 | 5.567 | 132.73869293 | 7.18798507 | 1.2904E+01 | 2.1576E-01 |
| 91.031 | 5.563 | 132.61797103 | 7.18157901 | 1.2893E+01 | 2.1561E-01 |
| 91.170 | 5.571 | 132.85941482 | 7.19439124 | 1.2916E+01 | 2.1592E-01 |
| 91.307 | 5.555 | 132.37652725 | 7.16876726 | 1.2869E+01 | 2.1530E-01 |
| 91.443 | 5.549 | 132.19544440 | 7.15915875 | 1.2852E+01 | 2.1507E-01 |
| 91.536 | 5.550 | 132.22562488 | 7.16076015 | 1.2855E+01 | 2.1511E-01 |
| 91.632 | 5.540 | 131.92382014 | 7.14474649 | 1.2825E+01 | 2.1472E-01 |
| 91.730 | 5.542 | 131.98418109 | 7.14794916 | 1.2831E+01 | 2.1480E-01 |
| 91.832 | 5.545 | 132.07472251 | 7.15275323 | 1.2840E+01 | 2.1491E-01 |
| 91.936 | 5.546 | 132.10490298 | 7.15435460 | 1.2843E+01 | 2.1495E-01 |
| 92.044 | 5.549 | 132.19544440 | 7.15915875 | 1.2852E+01 | 2.1507E-01 |
| 92.211 | 5.556 | 132.40670772 | 7.17036870 | 1.2872E+01 | 2.1534E-01 |
| 92.386 | 5.566 | 132.70851245 | 7.18638354 | 1.2902E+01 | 2.1572E-01 |
| 92.568 | 5.558 | 132.46706867 | 7.17357161 | 1.2878E+01 | 2.1541E-01 |

| | |
|----------------|-----------|
| Skala Eichen | |
| mittelwert uq | 1.1688353 |
| fehler sigmaud | 0.0154256 |

| | | |
|--------------------|--------------|------------|
| Lineare Regression | | |
| Curie-Temperatur | | |
| B(U)=a*U+b | a | b |
| Werte: | -3.39E-01 | 8.00E+01 |
| Standardfhele | 2.89E-03 | 6.55E-01 |
| Bestimmtheits | 0.989983 | 0.122779 |
| F-Wert der Va | 13737.161910 | 139.000000 |
| Abweichung [s | 207.083004 | 2.095377 |

| | | |
|--------------|--------|--------------|
| Wert | Fehler | syst. Fehler |
| Curie-Temper | 236 | 3 0.02 |

| | |
|-----------------|-------------|
| Masse der Probe | |
| Dichte | 8.219g/cm^3 |
| Volumen | 0.0025Cm^3 |
| Masse | 0.0205g |

| | |
|-----------|------------|
| sigma min | -7.58E-002 |
| sigma max | 1.31E+001 |

| | | | | |
|----------|-------------|--------------|--------------|-------|
| neukurve | sigmamittel | stat. Fehler | syst. Fehler | T[K] |
| | 1.09E+001 | 0.08 | 1.09 | 162 |
| | 8.01E+000 | 0.16 | 1.05 | 202 |
| | 1.22E+001 | 0.06 | 0.97 | 122.5 |

7_Tb_warm_B100

Tb warm, B=100G, kalt parallel

| #T [K] | U [V] | B[G] | syst Fehler vo | sigma | Fehler |
|--------|-------|--------------|----------------|------------|------------|
| 91.946 | 5.983 | 145.99804008 | 7.88415997 | 1.4194E+01 | 2.7526E-01 |
| 91.968 | 5.974 | 145.72641582 | 7.86970650 | 1.4167E+01 | 2.7489E-01 |
| 91.989 | 5.976 | 145.78677677 | 7.87291835 | 1.4173E+01 | 2.7497E-01 |
| 92.010 | 5.983 | 145.99804008 | 7.88415997 | 1.4194E+01 | 2.7526E-01 |
| 92.030 | 5.994 | 146.33002529 | 7.90182587 | 1.4226E+01 | 2.7572E-01 |
| 92.050 | 5.993 | 146.29984482 | 7.90021986 | 1.4223E+01 | 2.7567E-01 |
| 92.070 | 6.001 | 146.54128861 | 7.91306811 | 1.4246E+01 | 2.7600E-01 |
| 92.098 | 6.009 | 146.78273239 | 7.92591667 | 1.4270E+01 | 2.7633E-01 |
| 92.126 | 6.027 | 147.32598091 | 7.95482705 | 1.4323E+01 | 2.7708E-01 |
| 92.156 | 6.027 | 147.32598091 | 7.95482705 | 1.4323E+01 | 2.7708E-01 |
| 92.178 | 6.000 | 146.51110813 | 7.91146206 | 1.4243E+01 | 2.7596E-01 |
| 92.201 | 5.992 | 146.26966435 | 7.89861385 | 1.4220E+01 | 2.7563E-01 |
| 92.226 | 5.990 | 146.20930340 | 7.89540184 | 1.4214E+01 | 2.7555E-01 |
| 92.253 | 5.975 | 145.75659630 | 7.87131242 | 1.4170E+01 | 2.7493E-01 |
| 92.281 | 5.972 | 145.66605488 | 7.86649467 | 1.4161E+01 | 2.7481E-01 |
| 92.311 | 5.973 | 145.69623535 | 7.86810058 | 1.4164E+01 | 2.7485E-01 |
| 92.342 | 5.983 | 145.99804008 | 7.88415997 | 1.4194E+01 | 2.7526E-01 |
| 92.390 | 5.981 | 145.93767914 | 7.88094806 | 1.4188E+01 | 2.7518E-01 |
| 92.441 | 5.982 | 145.96785961 | 7.88255401 | 1.4191E+01 | 2.7522E-01 |
| 92.494 | 5.982 | 145.96785961 | 7.88255401 | 1.4191E+01 | 2.7522E-01 |
| 92.530 | 5.979 | 145.87731819 | 7.87773616 | 1.4182E+01 | 2.7510E-01 |
| 92.567 | 5.980 | 145.90749866 | 7.87934210 | 1.4185E+01 | 2.7514E-01 |
| 92.604 | 5.990 | 146.20930340 | 7.89540184 | 1.4214E+01 | 2.7555E-01 |
| 92.641 | 6.006 | 146.69219097 | 7.92109842 | 1.4261E+01 | 2.7621E-01 |
| 92.680 | 6.012 | 146.87327381 | 7.93073496 | 1.4279E+01 | 2.7646E-01 |
| 92.718 | 6.012 | 146.87327381 | 7.93073496 | 1.4279E+01 | 2.7646E-01 |
| 92.757 | 6.004 | 146.63183003 | 7.91788628 | 1.4255E+01 | 2.7613E-01 |
| 92.815 | 6.018 | 147.05435665 | 7.94037166 | 1.4296E+01 | 2.7671E-01 |
| 92.873 | 6.003 | 146.60164955 | 7.91628022 | 1.4252E+01 | 2.7609E-01 |
| 92.932 | 5.981 | 145.93767914 | 7.88094806 | 1.4188E+01 | 2.7518E-01 |
| 92.972 | 5.972 | 145.66605488 | 7.86649467 | 1.4161E+01 | 2.7481E-01 |
| 93.011 | 5.971 | 145.63587440 | 7.86488876 | 1.4158E+01 | 2.7477E-01 |
| 93.050 | 5.971 | 145.63587440 | 7.86488876 | 1.4158E+01 | 2.7477E-01 |
| 93.090 | 5.970 | 145.60569393 | 7.86328285 | 1.4155E+01 | 2.7472E-01 |
| 93.129 | 5.982 | 145.96785961 | 7.88255401 | 1.4191E+01 | 2.7522E-01 |
| 93.169 | 5.991 | 146.23948387 | 7.89700784 | 1.4217E+01 | 2.7559E-01 |
| 93.228 | 6.010 | 146.81291287 | 7.92752276 | 1.4273E+01 | 2.7638E-01 |
| 93.287 | 6.006 | 146.69219097 | 7.92109842 | 1.4261E+01 | 2.7621E-01 |
| 93.347 | 5.989 | 146.17912293 | 7.89379585 | 1.4211E+01 | 2.7551E-01 |
| 93.389 | 5.983 | 145.99804008 | 7.88415997 | 1.4194E+01 | 2.7526E-01 |
| 93.438 | 5.982 | 145.96785961 | 7.88255401 | 1.4191E+01 | 2.7522E-01 |
| 93.493 | 5.980 | 145.90749866 | 7.87934210 | 1.4185E+01 | 2.7514E-01 |
| 93.557 | 5.983 | 145.99804008 | 7.88415997 | 1.4194E+01 | 2.7526E-01 |
| 93.629 | 5.981 | 145.93767914 | 7.88094806 | 1.4188E+01 | 2.7518E-01 |
| 93.711 | 5.988 | 146.14894245 | 7.89218985 | 1.4208E+01 | 2.7547E-01 |
| 93.802 | 5.989 | 146.17912293 | 7.89379585 | 1.4211E+01 | 2.7551E-01 |
| 93.957 | 5.984 | 146.02822056 | 7.88576594 | 1.4196E+01 | 2.7530E-01 |
| 94.134 | 6.014 | 146.93363476 | 7.93394717 | 1.4284E+01 | 2.7654E-01 |
| 94.332 | 6.019 | 147.08453713 | 7.94197780 | 1.4299E+01 | 2.7675E-01 |
| 94.475 | 6.012 | 146.87327381 | 7.93073496 | 1.4279E+01 | 2.7646E-01 |
| 94.627 | 6.008 | 146.75255192 | 7.92431058 | 1.4267E+01 | 2.7629E-01 |
| 94.787 | 6.008 | 146.75255192 | 7.92431058 | 1.4267E+01 | 2.7629E-01 |
| 94.953 | 6.004 | 146.63183003 | 7.91788628 | 1.4255E+01 | 2.7613E-01 |
| 95.124 | 5.996 | 146.39038624 | 7.90503791 | 1.4232E+01 | 2.7580E-01 |
| 95.298 | 6.002 | 146.57146908 | 7.91467416 | 1.4249E+01 | 2.7605E-01 |
| 95.475 | 6.006 | 146.69219097 | 7.92109842 | 1.4261E+01 | 2.7621E-01 |
| 95.743 | 5.999 | 146.48092766 | 7.90985602 | 1.4240E+01 | 2.7592E-01 |
| 96.016 | 5.996 | 146.39038624 | 7.90503791 | 1.4232E+01 | 2.7580E-01 |
| 96.292 | 5.999 | 146.48092766 | 7.90985602 | 1.4240E+01 | 2.7592E-01 |
| 96.478 | 5.992 | 146.26966435 | 7.89861385 | 1.4220E+01 | 2.7563E-01 |
| 96.664 | 6.007 | 146.72237145 | 7.92270450 | 1.4264E+01 | 2.7625E-01 |
| 96.851 | 6.024 | 147.23543949 | 7.95000854 | 1.4314E+01 | 2.7695E-01 |
| 97.039 | 6.009 | 146.78273239 | 7.92591667 | 1.4270E+01 | 2.7633E-01 |
| 97.227 | 6.010 | 146.81291287 | 7.92752276 | 1.4273E+01 | 2.7638E-01 |
| 97.416 | 6.001 | 146.54128861 | 7.91306811 | 1.4246E+01 | 2.7600E-01 |
| 97.605 | 5.992 | 146.26966435 | 7.89861385 | 1.4220E+01 | 2.7563E-01 |
| 97.890 | 6.024 | 147.23543949 | 7.95000854 | 1.4314E+01 | 2.7695E-01 |
| 98.178 | 6.016 | 146.99399571 | 7.93715941 | 1.4290E+01 | 2.7662E-01 |
| 98.468 | 6.013 | 146.90345429 | 7.93234106 | 1.4282E+01 | 2.7650E-01 |
| 98.664 | 6.015 | 146.96381523 | 7.93555329 | 1.4287E+01 | 2.7658E-01 |
| 98.861 | 6.015 | 146.96381523 | 7.93555329 | 1.4287E+01 | 2.7658E-01 |
| 99.059 | 6.022 | 147.17507855 | 7.94679623 | 1.4308E+01 | 2.7687E-01 |
| 99.258 | 5.993 | 146.29984482 | 7.90021986 | 1.4223E+01 | 2.7567E-01 |

| | |
|-----------------|-----------|
| Skala Eichen | |
| mittelwert uq | 1.1455000 |
| fehler sigma uq | 0.0099039 |

| | | |
|--------------------|-------------|-----------|
| Lineare Regression | | |
| Curie-Temperatur | | |
| B(U)=a*U+b | a | b |
| Werte: | -3.58E-01 | 8.45E+01 |
| Standardfehler | 3.60E-03 | 8.12E-01 |
| Bestimmtheits | 0.990115 | 0.118930 |
| F-Wert der Va | 9916.604641 | 99.000000 |
| Abweichung [s | 140.263860 | 1.400290 |

| | | |
|--------------|--------|--------------|
| Wert | Fehler | syst. Fehler |
| Curie-Temper | 236 | 3 0.01 |

| | |
|-----------------|-------------|
| Masse der Probe | |
| Dichte | 8.219g/cm^3 |
| Volumen | 0.0025Cm^3 |
| Masse | 0.0205g |

| | |
|-----------|------------|
| sigma min | -3.68E+000 |
| sigma max | 3.40E+001 |

| | | | | |
|----------|-------------|--------------|--------------|-------|
| neukurve | sigmamittel | stat. Fehler | syst. Fehler | T[K] |
| | 1.20E+001 | 0.09 | 1.2 | 162 |
| | 8.74E+000 | 0.17 | 1.13 | 202 |
| | 1.36E+001 | 0.12 | 1.19 | 122.5 |

8_Tb_warm_B150

Tb warm, B=150G, kalt parallel

| #T [K] | U [V] | B[G] | syst Fehler vo | sigma | Fehler |
|---------|-------|--------------|----------------|------------|------------|
| 99.065 | 7.866 | 202.22321410 | 10.89297933 | 1.9660E+01 | 3.5401E-01 |
| 99.243 | 7.853 | 201.83086795 | 10.87204940 | 1.9621E+01 | 3.5346E-01 |
| 99.428 | 7.847 | 201.64978511 | 10.86238956 | 1.9604E+01 | 3.5321E-01 |
| 99.556 | 7.842 | 201.49888274 | 10.85433976 | 1.9589E+01 | 3.5299E-01 |
| 99.686 | 7.836 | 201.31779990 | 10.84468008 | 1.9572E+01 | 3.5274E-01 |
| 99.821 | 7.825 | 200.98581469 | 10.82697089 | 1.9539E+01 | 3.5228E-01 |
| 99.957 | 7.824 | 200.95563422 | 10.82536098 | 1.9536E+01 | 3.5224E-01 |
| 100.094 | 7.834 | 201.25743895 | 10.84146021 | 1.9566E+01 | 3.5266E-01 |
| 100.231 | 7.835 | 201.28761943 | 10.84307015 | 1.9569E+01 | 3.5270E-01 |
| 100.365 | 7.838 | 201.37816085 | 10.84789997 | 1.9577E+01 | 3.5283E-01 |
| 100.561 | 7.843 | 201.52906321 | 10.85594972 | 1.9592E+01 | 3.5304E-01 |
| 100.749 | 7.828 | 201.07635611 | 10.83180064 | 1.9548E+01 | 3.5240E-01 |
| 100.928 | 7.832 | 201.19707801 | 10.83824034 | 1.9560E+01 | 3.5257E-01 |
| 101.043 | 7.829 | 201.10653658 | 10.83341056 | 1.9551E+01 | 3.5245E-01 |
| 101.154 | 7.824 | 200.95563422 | 10.82536098 | 1.9536E+01 | 3.5224E-01 |
| 101.262 | 7.831 | 201.16689753 | 10.83663041 | 1.9557E+01 | 3.5253E-01 |
| 101.367 | 7.835 | 201.28761943 | 10.84307015 | 1.9569E+01 | 3.5270E-01 |
| 101.467 | 7.828 | 201.07635611 | 10.83180064 | 1.9548E+01 | 3.5240E-01 |
| 101.565 | 7.833 | 201.22725848 | 10.83985028 | 1.9563E+01 | 3.5262E-01 |
| 101.660 | 7.847 | 201.64978511 | 10.86238956 | 1.9604E+01 | 3.5321E-01 |
| 101.797 | 7.846 | 201.61960463 | 10.86077960 | 1.9601E+01 | 3.5316E-01 |
| 101.927 | 7.859 | 202.01195079 | 10.88170932 | 1.9639E+01 | 3.5371E-01 |
| 102.053 | 7.866 | 202.22321410 | 10.89297933 | 1.9660E+01 | 3.5401E-01 |
| 102.133 | 7.865 | 202.19303363 | 10.89136932 | 1.9657E+01 | 3.5397E-01 |
| 102.212 | 7.868 | 202.28357505 | 10.89619935 | 1.9665E+01 | 3.5409E-01 |
| 102.289 | 7.887 | 202.85700404 | 10.92679004 | 1.9721E+01 | 3.5489E-01 |
| 102.364 | 7.896 | 203.12862830 | 10.94128066 | 1.9748E+01 | 3.5528E-01 |
| 102.437 | 7.899 | 203.21916972 | 10.94611091 | 1.9756E+01 | 3.5540E-01 |
| 102.508 | 7.889 | 202.91736499 | 10.93001017 | 1.9727E+01 | 3.5498E-01 |
| 102.612 | 7.889 | 202.91736499 | 10.93001017 | 1.9727E+01 | 3.5498E-01 |
| 102.712 | 7.896 | 203.12862830 | 10.94128066 | 1.9748E+01 | 3.5528E-01 |
| 102.809 | 7.866 | 202.22321410 | 10.89297933 | 1.9660E+01 | 3.5401E-01 |
| 102.872 | 7.870 | 202.34393599 | 10.89941939 | 1.9671E+01 | 3.5418E-01 |
| 102.933 | 7.856 | 201.92140937 | 10.87687935 | 1.9630E+01 | 3.5359E-01 |
| 102.994 | 7.855 | 201.89122889 | 10.87526936 | 1.9627E+01 | 3.5354E-01 |
| 103.056 | 7.847 | 201.64978511 | 10.86238956 | 1.9604E+01 | 3.5321E-01 |
| 103.121 | 7.849 | 201.71014605 | 10.86560950 | 1.9610E+01 | 3.5329E-01 |
| 103.188 | 7.844 | 201.55924369 | 10.85755968 | 1.9595E+01 | 3.5308E-01 |
| 103.258 | 7.839 | 201.40834132 | 10.84950991 | 1.9580E+01 | 3.5287E-01 |
| 103.371 | 7.827 | 201.04617564 | 10.83019072 | 1.9545E+01 | 3.5236E-01 |
| 103.494 | 7.827 | 201.04617564 | 10.83019072 | 1.9545E+01 | 3.5236E-01 |
| 103.627 | 7.829 | 201.10653658 | 10.83341056 | 1.9551E+01 | 3.5245E-01 |
| 103.722 | 7.832 | 201.19707801 | 10.83824034 | 1.9560E+01 | 3.5257E-01 |
| 103.822 | 7.831 | 201.16689753 | 10.83663041 | 1.9557E+01 | 3.5253E-01 |
| 103.927 | 7.828 | 201.07635611 | 10.83180064 | 1.9548E+01 | 3.5240E-01 |
| 104.036 | 7.837 | 201.34798037 | 10.84629002 | 1.9574E+01 | 3.5278E-01 |
| 104.149 | 7.833 | 201.22725848 | 10.83985028 | 1.9563E+01 | 3.5262E-01 |
| 104.267 | 7.831 | 201.16689753 | 10.83663041 | 1.9557E+01 | 3.5253E-01 |
| 104.390 | 7.833 | 201.22725848 | 10.83985028 | 1.9563E+01 | 3.5262E-01 |
| 104.580 | 7.843 | 201.52906321 | 10.85594972 | 1.9592E+01 | 3.5304E-01 |
| 104.780 | 7.849 | 201.71014605 | 10.86560950 | 1.9610E+01 | 3.5329E-01 |
| 104.988 | 7.837 | 201.34798037 | 10.84629002 | 1.9574E+01 | 3.5278E-01 |
| 105.131 | 7.832 | 201.19707801 | 10.83824034 | 1.9560E+01 | 3.5257E-01 |
| 105.278 | 7.826 | 201.01599516 | 10.82858080 | 1.9542E+01 | 3.5232E-01 |
| 105.429 | 7.815 | 200.68400996 | 10.81087187 | 1.9510E+01 | 3.5186E-01 |
| 105.582 | 7.815 | 200.68400996 | 10.81087187 | 1.9510E+01 | 3.5186E-01 |
| 105.738 | 7.816 | 200.71419043 | 10.81248176 | 1.9513E+01 | 3.5190E-01 |
| 105.896 | 7.812 | 200.59346854 | 10.80604221 | 1.9501E+01 | 3.5173E-01 |
| 106.058 | 7.814 | 200.65382948 | 10.80926198 | 1.9507E+01 | 3.5181E-01 |
| 106.303 | 7.820 | 200.83491232 | 10.81892135 | 1.9525E+01 | 3.5207E-01 |
| 106.554 | 7.814 | 200.65382948 | 10.80926198 | 1.9507E+01 | 3.5181E-01 |
| 106.809 | 7.806 | 200.41238570 | 10.79638295 | 1.9484E+01 | 3.5148E-01 |
| 106.981 | 7.800 | 200.23130286 | 10.78672378 | 1.9466E+01 | 3.5122E-01 |
| 107.156 | 7.799 | 200.20112238 | 10.78511393 | 1.9463E+01 | 3.5118E-01 |
| 107.332 | 7.790 | 199.92949812 | 10.77062536 | 1.9437E+01 | 3.5080E-01 |
| 107.509 | 7.777 | 199.53715197 | 10.74969777 | 1.9398E+01 | 3.5025E-01 |
| 107.688 | 7.774 | 199.44661055 | 10.74486838 | 1.9390E+01 | 3.5013E-01 |
| 107.868 | 7.783 | 199.71823481 | 10.75935661 | 1.9416E+01 | 3.5050E-01 |
| 108.140 | 7.776 | 199.50697149 | 10.74808797 | 1.9395E+01 | 3.5021E-01 |
| 108.414 | 7.763 | 199.11462534 | 10.72716082 | 1.9357E+01 | 3.4966E-01 |
| 108.690 | 7.758 | 198.96372297 | 10.71911202 | 1.9343E+01 | 3.4945E-01 |
| 108.875 | 7.754 | 198.84300108 | 10.71267303 | 1.9331E+01 | 3.4928E-01 |
| 109.061 | 7.746 | 198.60155729 | 10.69979516 | 1.9307E+01 | 3.4894E-01 |

| | |
|----------------|-----------|
| Skala Eichen | |
| mittelwert uq | 1.1655347 |
| fehler sigmaud | 0.0189120 |

| | | |
|--------------------|--------------|------------|
| Lineare Regression | | |
| Curie-Temperatur | | |
| B(U)=a*U+b | a | b |
| Werte: | -5.22E-01 | 1.23E+02 |
| Standardfehler | 4.36E-03 | 9.86E-01 |
| Bestimmtheits | 0.992451 | 0.157578 |
| F-Wert der Va | 14329.724976 | 109.000000 |
| Abweichung [s | 355.818943 | 2.706560 |

| Wert | Fehler | syst. Fehler |
|--------------|--------|--------------|
| Curie-Temper | 235 | 3 |
| | | 0.02 |

| | |
|-----------------|--------------|
| Masse der Probe | |
| Dichte | 8.219 g/cm^3 |
| Volumen | 0.0025 Cm^3 |
| Masse | 0.0205 g |

| | |
|-----------|------------|
| sigma min | -1.16E-001 |
| sigma max | 1.98E+001 |

| neukurve | sigmamittel | stat. Fehler | syst. Fehler | T[K] |
|----------|-------------|--------------|--------------|-------|
| | 1.66E+001 | 0.06 | 1.58 | 162 |
| | 1.19E+001 | 0.25 | 1.55 | 202 |
| | 1.89E+001 | 0.12 | 1.68 | 122.5 |

| | Mittelwert Cur | Wert | Fehler | syst. Fehler |
|-----------|----------------|--------|--------|--------------|
| Senkrecht | B=150 | 235 | 3 | 0.02 |
| | B=100 | 236 | 3 | 0.01 |
| | B=75 | 236 | 3 | 0.02 |
| | B=50 | 235 | 5 | 0.02 |
| Parallel | B=150 | 234 | 2 | 0.03 |
| | B=50 | 233 | 10 | 0.03 |
| | Mittelwert | 234.95 | 4.31 | 0.02 |

9_Gd_warm_B1000

Gd warm, B=1000G, kalt

| T [K] | U [V] | B[G] | syst Fehler von B |
|---------|-------|------------|-------------------|
| 99.602 | 1.277 | 3.94976054 | 1.23791151 |
| 99.637 | 1.288 | 4.28174574 | 1.24107919 |
| 99.672 | 1.285 | 4.19120432 | 1.24019076 |
| 99.708 | 1.284 | 4.16102385 | 1.23989869 |
| 99.744 | 1.287 | 4.25156527 | 1.24078101 |
| 99.780 | 1.276 | 3.91958006 | 1.23763583 |
| 99.817 | 1.269 | 3.70831675 | 1.23576363 |
| 99.854 | 1.265 | 3.58759486 | 1.23473916 |
| 99.908 | 1.255 | 3.28579012 | 1.23232295 |
| 99.962 | 1.272 | 3.79885817 | 1.23655365 |
| 100.015 | 1.262 | 3.49705344 | 1.23399252 |
| 100.050 | 1.264 | 3.55741438 | 1.23448821 |
| 100.085 | 1.264 | 3.55741438 | 1.23448821 |
| 100.119 | 1.262 | 3.49705344 | 1.23399252 |
| 100.154 | 1.264 | 3.55741438 | 1.23448821 |
| 100.190 | 1.273 | 3.82903864 | 1.23682111 |
| 100.227 | 1.274 | 3.85921912 | 1.23709062 |
| 100.265 | 1.265 | 3.58759486 | 1.23473916 |
| 100.324 | 1.261 | 3.46687296 | 1.23374778 |
| 100.385 | 1.251 | 3.16506823 | 1.23141465 |
| 100.449 | 1.244 | 2.95380492 | 1.22990546 |
| 100.493 | 1.255 | 3.28579012 | 1.23232295 |
| 100.538 | 1.270 | 3.73849722 | 1.23602490 |
| 100.584 | 1.278 | 3.97994101 | 1.23818925 |
| 100.630 | 1.276 | 3.91958006 | 1.23763583 |
| 100.678 | 1.281 | 4.07048243 | 1.23903476 |
| 100.726 | 1.282 | 4.10066290 | 1.23932069 |
| 100.776 | 1.275 | 3.88939959 | 1.23736220 |
| 100.850 | 1.262 | 3.49705344 | 1.23399252 |
| 100.927 | 1.257 | 3.34615107 | 1.23278958 |
| 101.004 | 1.257 | 3.34615107 | 1.23278958 |
| 101.058 | 1.253 | 3.22542918 | 1.23186463 |
| 101.118 | 1.261 | 3.46687296 | 1.23374778 |
| 101.189 | 1.259 | 3.40651202 | 1.23326453 |
| 101.272 | 1.259 | 3.40651202 | 1.23326453 |
| 101.362 | 1.232 | 2.59163923 | 1.22755704 |
| 101.455 | 1.230 | 2.53127829 | 1.22719506 |
| 101.551 | 1.221 | 2.25965403 | 1.22567054 |
| 101.694 | 1.209 | 1.89748835 | 1.22390438 |
| 101.837 | 1.206 | 1.80694693 | 1.22351058 |
| 101.979 | 1.198 | 1.56550314 | 1.22255402 |
| 102.073 | 1.193 | 1.41460077 | 1.22202540 |
| 102.165 | 1.200 | 1.62586409 | 1.22278039 |
| 102.257 | 1.202 | 1.68622503 | 1.22301527 |
| 102.348 | 1.202 | 1.68622503 | 1.22301527 |
| 102.439 | 1.200 | 1.62586409 | 1.22278039 |
| 102.532 | 1.202 | 1.68622503 | 1.22301527 |
| 102.674 | 1.205 | 1.77676645 | 1.22338356 |
| 102.821 | 1.206 | 1.80694693 | 1.22351058 |
| 102.972 | 1.210 | 1.92766882 | 1.22403990 |
| 103.077 | 1.210 | 1.92766882 | 1.22403990 |
| 103.185 | 1.199 | 1.59568361 | 1.22266614 |
| 103.297 | 1.192 | 1.38442030 | 1.22192608 |
| 103.412 | 1.194 | 1.44478125 | 1.22212686 |
| 103.532 | 1.198 | 1.56550314 | 1.22255402 |
| 103.655 | 1.192 | 1.38442030 | 1.22192608 |
| 103.782 | 1.188 | 1.26369840 | 1.22155013 |
| 103.980 | 1.181 | 1.05243509 | 1.22097446 |
| 104.186 | 1.185 | 1.17315698 | 1.22129059 |
| 104.401 | 1.181 | 1.05243509 | 1.22097446 |
| 104.549 | 1.190 | 1.32405935 | 1.22173383 |
| 104.700 | 1.231 | 2.56145876 | 1.22737500 |
| 104.855 | 1.246 | 3.01416586 | 1.23032621 |
| 105.013 | 1.245 | 2.98398539 | 1.23011479 |
| 105.174 | 1.252 | 3.19524870 | 1.23163860 |
| 105.338 | 1.248 | 3.07452681 | 1.23075532 |
| 105.506 | 1.244 | 2.95380492 | 1.22990546 |
| 105.761 | 1.243 | 2.92362444 | 1.22969822 |
| 106.023 | 1.244 | 2.95380492 | 1.22990546 |
| 106.290 | 1.252 | 3.19524870 | 1.23163860 |
| 106.471 | 1.253 | 3.22542918 | 1.23186463 |
| 106.655 | 1.250 | 3.13488776 | 1.23119279 |
| 106.841 | 1.253 | 3.22542918 | 1.23186463 |

| Skala Eichen | |
|---------------|-----------|
| mittelwert uq | 1.1461286 |
| fehler sigm | 0.0270772 |

| Lineare Regression | | |
|--------------------|------------|------------|
| Curie-Temperatur | | |
| B(U)=a*U+b | a | b |
| Werte: | -1.58E+00 | 4.64E+02 |
| Standardfehler | 5.76E-02 | 1.68E+01 |
| Bestimmtheits | 0.790991 | 0.905899 |
| F-Wert der Va | 753.110215 | 199.000000 |
| Abweichung | 618.042804 | 163.310118 |

| | Wert | stat. Fehler | syst. Fehler |
|--------------|--------|--------------|--------------|
| Curie-Temper | 293.57 | 15.09 | 0.03 |

Neukurve

| #Neukurve von Tb parallel bei T=160 K,...165K | | | | |
|---|------|------|----------|--------|
| # sigma [emu/fehler] | | | Feld [G] | fehler |
| 0 | 0 | 0 | 0 | 0 |
| 7.90E+000 | 0.08 | 0.74 | 53.3 | 4.9 |
| 1.09E+001 | 0.08 | 1.09 | 79.8 | 4.9 |
| 1.20E+001 | 0.09 | 1.2 | 104.5 | 4.9 |
| 1.66E+001 | 0.06 | 1.58 | 157.6 | 4.9 |

| #Neukurve von Tb parallel bei T=200 K,...205K | | | | |
|---|------|------|----------|--------|
| # sigma [emu/fehler] | | | Feld [G] | fehler |
| 0 | 0 | 0 | 0 | 0 |
| 5.79E+000 | 0.1 | 0.7 | 53.3 | 4.9 |
| 8.01E+000 | 0.16 | 1.05 | 79.8 | 4.9 |
| 8.74E+000 | 0.17 | 1.13 | 104.5 | 4.9 |
| 8.74E+000 | 0.17 | 1.55 | 157.6 | 4.9 |

| #Neukurve von Tb parallel bei T=120K,...125K | | | | |
|--|------|------|----------|--------|
| # sigma [emu/fehler] | | | Feld [G] | fehler |
| 0 | 0 | 0 | 0 | 0 |
| 8.92E+000 | 0.05 | 0.97 | 53.3 | 4.9 |
| 1.22E+001 | 0.06 | 0.97 | 79.8 | 4.9 |
| 1.36E+001 | 0.12 | 1.19 | 104.5 | 4.9 |
| 1.89E+001 | 0.12 | 1.68 | 157.6 | 4.9 |