Resultate.

Gleichungen für die durch die Netzausgleichung zu gewinnenden Richtungsverbesserungen.

Elemente.	ΔE =	[112]	[113]	[114]	[115]	[116]	[117]	[118]	[119]	[120]	[121]	[122]	[123]	[124]	[125]	[126]	[127]	[128]	[129]	[130]	= ΔE	Substitutionsreste.
		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
$\varepsilon_{112} = +0''.17005$	(112) =	0.04119	0.00791	0.01039	0.00904	0.00745	0.00817	0.00915	0.00961	0.00821	0.00538	0.01013	0.00927	0.00785	0.00733	0.00770	0.00978	0.01002	0.00921	0.00922	= (112)	−1
$\varepsilon_{113} = -0.66249$	(113) =	0.00791	0.07488	0.01080	0.00895	0.00768	0.00790	0.00994	0.00755	0.00831	0.01252	0.00795	0.00666	0.00676	0.00797	0.00662	0.00722	0.00711	0.00855	0.00921	= (113)	0
$\varepsilon_{114} = -0.19935$	(114) =	0.01039	0.01080	0.07535	0.00830	0.00830	0.00829	0.01299	0.00989	0.00800	0.00700	0.00867	0.00760	0.00613	0.00858	0.00693	0.00809	0.00837	0.01199	0.01110	= (114)	+2
$\varepsilon_{115} = -0.27094$	(115) =	0.00904	0.00895	0.00830	0.04073	0.00839	0.00884	0.00805	0.00879	0.00965	0.00744	0.00989	0.00837	0.00710	0.00904	0.00793	0.00912	0.00898	0.00824	0.00865	= (115)	+2
$\varepsilon_{116} = -0.32113$	(116) =	0.00745	0.00768	0.00830	0.00839	0.04021	0.01068	0.00842	0.00799	0.00992	0.00808	0.00834	0.00753	0.00549	0.00827	0.00690	0.00765	0.00742	0.00838	0.00748	= (116)	+1
$\varepsilon_{117} = +0.04662$	(117) =	0.00817	0.00790	0.00829	0.00884	0.01068	0.04052	0.00843	0.00839	0.01020	0.00591	0.00882	0.00809	0.00613	0.00822	0.00733	0.00840	0.00821	0.00884	0.00824	= (117)	−1
$\varepsilon_{118} = +0.24439$	(118) =	0.00915	0.00994	0.01299	0.00805	0.00842	0.00843	0.07237	0.01018	0.00792	0.00940	0.00835	0.00807	0.00627	0.00902	0.00763	0.00912	0.00849	0.01394	0.01314	= (118)	−1
$\varepsilon_{119} = +0.45319$	(119) =	0.00961	0.00755	0.00989	0.00879	0.00799	0.00839	0.01018	0.04096	0.00904	0.00601	0.00936	0.00907	0.00726	0.00821	0.00787	0.00934	0.00882	0.01015	0.01046	= (119)	0
$\varepsilon_{120} = -0.12619$	(120) =	0.00821	0.00831	0.00800	0.00965	0.00992	0.01020	0.00792	0.00904	0.04217	0.00804	0.00953	0.00796	0.00662	0.00781	0.00827	0.00827	0.00822	0.00810	0.00842	= (120)	+8
$\varepsilon_{121} = +0.13481$	(121) =	0.00538	0.01252	0.00700	0.00744	0.00808	0.00591	0.00940	0.00601	0.00804	0.08331	0.00662	0.00538	0.00612	0.00855	0.00580	0.00362	0.00569	0.00694	0.00699	= (121)	0
$\varepsilon_{122} = -0.26660$	(122) =	0.01013	0.00795	0.00867	0.00989	0.00834	0.00882	0.00835	0.00936	0.00953	0.00662	0.04082	0.00914	0.00711	0.00819	0.00761	0.00552	0.00929	0.00888	0.00927	= (122)	−3
$\varepsilon_{123} = -0.20613$	(123) =	0.00927	0.00666	0.00760	0.00837	0.00753	0.00809	0.00807	0.00907	0.00796	0.00558	0.00914	0.04139	0.00733	0.00717	0.00958	0.00900	0.00945	0.00876	0.00878	= (123)	+2
$\varepsilon_{124} = +0.38885$	(124) =	0.00785	0.00676	0.00613	0.00710	0.00549	0.00613	0.00627	0.00726	0.00662	0.00622	0.00712	0.00733	0.04119	0.00647	0.00736	0.00834	0.00718	0.00695	0.00746	= (124)	+2
$\varepsilon_{125} = +0.53765$	(125) =	0.00733	0.00797	0.00858	0.00904	0.00827	0.00822	0.00902	0.00821	0.00781	0.00855	0.00819	0.00717	0.00647	0.03983	0.00724	0.00804	0.00730	0.00816	0.00798	= (125)	+2
$\varepsilon_{126} = +0.39680$	(126) =	0.00770	0.00662	0.00693	0.00793	0.00690	0.00733	0.00765	0.00787	0.00827	0.00580	0.00761	0.00932	0.00736	0.00714	0.04103	0.00843	0.00898	0.00781	0.00846	= (126)	−1
$\varepsilon_{127} = +0.00111$	(127) =	0.00978	0.00722	0.00809	0.00912	0.00765	0.00840	0.00912	0.00934	0.00827	0.00561	0.00931	0.00900	0.00834	0.00804	0.00843	0.04089	0.01019	0.01073	0.01103	= (127)	−2
$\varepsilon_{128} = +0.00865$	(128) =	0.01002	0.00712	0.00837	0.00898	0.00742	0.00821	0.00849	0.00882	0.00822	0.00569	0.00919	0.00945	0.00718	0.00750	0.00896	0.01019	0.04226	0.00936	0.00976	= (128)	−4
$\varepsilon_{129} = -0.48717$	(129) =	0.00921	0.00855	0.01199	0.00824	0.00838	0.00884	0.01394	0.01015	0.00810	0.00694	0.00888	0.00876	0.00695	0.00816	0.00781	0.01073	0.00936	0.07201	0.01486	= (129)	−4
$\varepsilon_{130} = +0.04767$	(130) =	0.00922	0.00921	0.01110	0.00865	0.00748	0.00824	0.01314	0.01046	0.00842	0.00699	0.00927	0.00878	0.00746	0.00798	0.00846	0.01103	0.00978	0.01486	0.07163	= (130)	0
																						+2

Ausgeglichene Richtungen.

Reichenbach, Kirchthurm	0° 0′ 0″.0
1 Geising	4 15 24.3700 + (112)
60 Lessingthurm	20 48 42.3375 + (113)
51 Butterberg	77 37 40.8007 + (114)
6 Valtenberg	88 8 51.7291 + (115)
5 Lausche	91 55 11.6779 + (116)
8 Schneeberg	128 39 53.0466 + (117)
65 Felixthurm	143 16 56.2444 + (118)
7 Porsberg	150 1 44.4551 + (119)
9 Kahleberg	157 44 56.8738 + (120)
63 Schlossthurm, Spitze zu Dresden	179 37 47.1348 + (121)
	−15.2822
Pfeiler	179 37 31.8526
12 Baeyerhöhe	205° 0′ 13″.7334 + (122)
30 Grossdobritz	227 14 10.7939 + (123)
29 Buchberg	236 28 16.3866 + (124)
10 Collm	238 54 2.5377 + (125)
34 Raschütz	245 9 21.3968 + (126)
32 Quersa	253 23 19.0011 + (127)
11 Strauch	264 48 37.0086 + (128)
68 Galgenberge	269 8 16.5128 + (129)
67 Olgahöhe	324 49 14.0477 + (130)

Mittlerer Beobachtungsfehler.

$$\begin{array}{rrl} [[\Delta u \cdot \Delta u]] & = & 1210.6982 \\ -\left[\frac{[\Delta u]^2}{n}\right] & = & -571.2262 \\ -\quad \Sigma & = & -\ 50.5677 \\ \hline [vv]_{w} & = & 588.9043 \end{array} \qquad \begin{array}{rrl} n & = & 701 \\ -k_e & = & -\ 19 \\ -r & = & -129 \\ \hline \text{Divisor} & = & 553 \end{array}$$

$$m_{w} = \sqrt{\frac{588.9043}{553}} = \pm 1''.032.$$

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