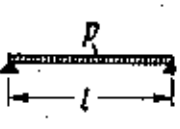
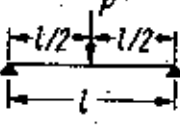
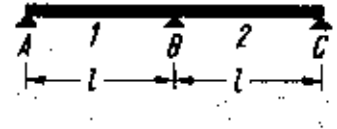


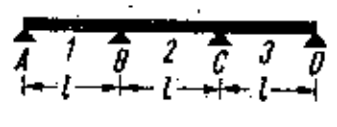
Tafel 10.3: Durchlaufträger mit gleichen Stützweiten bei feldweiser

Belastete Felder	Kraftgrößen	Belastung	
			

Träger mit 2 gleichen Feldern

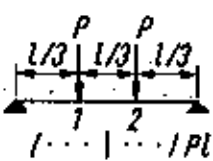
	M_1	$0,070 pl^2$	$0,156 Pl$
$\min M_b$	$-0,125 pl^2$	$0,188 Pl$	
M_b	$0,375 pl^2$	$0,312 P$	
$\max B$	$1,260 pl$	$1,375 P$	
$\min Q_{1b}$	$-0,025 pl$	$-0,688 P$	
$\max M_1$	$0,096 pl^2$	$0,203 Pl$	
M_b	$-0,063 pl^2$	$-0,094 Pl$	
$\max A$	$0,438 pl$	$0,406 P$	
$\min M_1$		$-0,047 Pl$	
$\min A$	$-0,068 pl$	$-0,094 P$	

Träger mit 3 gleichen Feldern

	M_1	$0,080 pl^2$	$0,175 Pl$
M_2	$0,025 pl^2$	$0,100 Pl$	
M_b	$-0,100 pl^2$	$-0,150 Pl$	
A	$0,400 pl$	$0,350 P$	
B	$1,100 pl$	$1,150 P$	
Q_{1b}	$-0,600 pl$	$-0,050 P$	
Q_{2b}	$0,500 pl$	$0,500 P$	
$\max M_1$	$0,101 pl^2$	$0,213 Pl$	
$\min M_2$	$-0,060 pl^2$	$-0,075 Pl$	
M_b	$-0,050 pl^2$	$-0,075 Pl$	
$\max A$	$0,460 pl$	$0,425 P$	
$\min M_1$		$-0,038 Pl$	
$\max M_2$	$0,075 pl^2$	$0,175 Pl$	
M_b	$-0,050 pl^2$	$-0,075 Pl$	
$\min A$	$-0,050 pl$	$-0,075 P$	

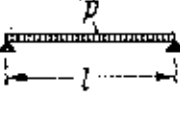
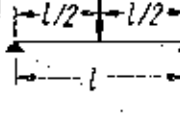
Belastung

Art der Belastung

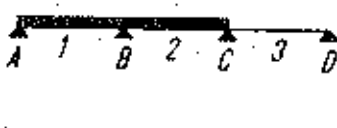
			
M in den Punkten 1 u. 2	$K = 0,5 \cdot q \cdot l$	$K = 0,6 \cdot q \cdot l$	$K = 0,7 \cdot q \cdot l$

$\{0,222 \mid 0,111\} Pl$	$0,085 Kl$	$0,094 Kl$	$0,089 Kl$
$-0,333 Pl$	$-0,150 Kl$	$-0,165 Kl$	$-0,151 Kl$
$0,667 P$	$0,344 K$	$0,345 K$	$0,349 K$
$2,667 P$	$1,312 K$	$1,310 K$	$1,302 K$
$-1,333 P$	$-0,656 K$	$-0,655 K$	$-0,651 K$
$\{0,278 \mid 0,222\} Pl$	$0,129 Kl$	$0,126 Kl$	$0,121 Kl$
$-0,167 Pl$	$-0,078 Kl$	$-0,078 Kl$	$-0,076 Kl$
$0,833 P$	$0,422 K$	$0,422 K$	$0,424 K$
$\{0,056 \mid 0,111\} Pl$	$-0,035 Kl$	$-0,035 Kl$	$-0,034 Kl$
$-0,167 P$	$-0,078 K$	$-0,078 K$	$-0,076 K$
$\{0,244 \mid 0,156\} Pl$	$0,108 Kl$	$0,107 Kl$	$0,102 Kl$
$0,067 Pl$	$0,042 Kl$	$0,040 Kl$	$0,036 Kl$
$-0,207 Pl$	$-0,126 Kl$	$-0,124 Kl$	$-0,121 Kl$
$0,733 P$	$0,376 K$	$0,376 K$	$0,379 K$
$2,207 P$	$1,125 K$	$1,124 K$	$1,121 K$
$-1,267 P$	$-0,625 K$	$-0,624 K$	$-0,621 K$
$1,000 P$	$0,500 K$	$0,500 K$	$0,500 K$
$\{0,289 \mid 0,244\} Pl$	$0,136 Kl$	$0,134 Kl$	$0,128 Kl$
$-0,133 Pl$	$-0,063 Kl$	$-0,062 Kl$	$-0,061 Kl$
$-0,133 Pl$	$-0,063 Kl$	$-0,062 Kl$	$-0,061 Kl$
$0,867 P$	$0,437 K$	$0,438 K$	$0,439 K$
$\{0,044 \mid 0,089\} Pl$	$-0,028 Kl$	$-0,028 Kl$	$-0,027 Kl$
$0,200 Pl$	$0,104 Kl$	$0,102 Kl$	$0,096 Kl$
$-0,133 Pl$	$-0,063 Kl$	$-0,062 Kl$	$-0,061 Kl$
$-0,133 P$	$-0,063 K$	$-0,062 K$	$-0,061 K$

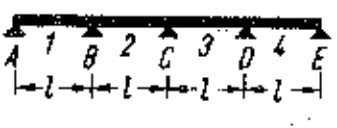
Tafel 10.3: Durchlaufträger mit gleichen Stützweiten bei feldweiser

Belastete Felder	Kraftgrößen	Belastung	
			

Noch Träger mit 3 gleichen Feldern

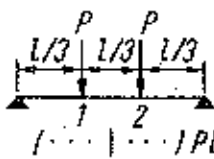
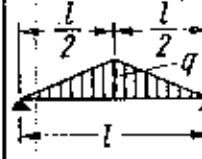
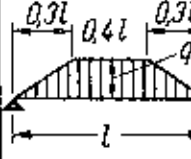
	$\min M_b$	$-0,117 pl^2$	$-0,176 Pl$
M_c	$-0,033 pl^2$	$-0,050 Pl$	
$\max B$	$1,200 pl$	$1,300 P$	
$\min Q_{1b}$	$-0,617 pl$	$-0,675 P$	
$\max Q_{2b}$	$0,583 pl$	$0,625 P$	
$\max M_b$	$0,017 pl^2$	$0,025 Pl$	
M_c	$-0,067 pl^2$	$-0,100 Pl$	
$\max Q_{1b}$	$0,017 pl$	$0,025 P$	
$\min Q_{2b}$	$-0,083 pl$	$-0,125 P$	

Träger mit 4 gleichen Feldern

	M_1	$0,077 pl^2$	$0,170 Pl$
M_2	$0,036 pl^2$	$0,116 Pl$	
M_b	$-0,107 pl^2$	$-0,161 Pl$	
M_c	$-0,071 pl^2$	$-0,107 Pl$	
A	$0,393 pl$	$0,339 P$	
B	$1,143 pl$	$1,214 P$	
C	$0,929 pl$	$0,892 P$	
Q_{1b}	$-0,607 pl$	$-0,661 P$	
Q_{2b}	$0,586 pl$	$0,554 P$	
Q_{3b}	$-0,464 pl$	$-0,446 P$	
$\max M_1$	$0,100 pl^2$	$0,210 Pl$	
$\min M_2$		$-0,067 Pl$	
$M_b = M_d$	$-0,054 pl^2$	$-0,080 Pl$	
M_c	$-0,036 pl^2$	$-0,054 Pl$	
$\max A$	$0,446 pl$	$0,420 P$	

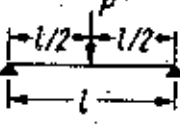
Belastung (Fortsetzung)

Art der Belastung

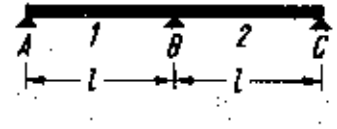
			
M in den Punkten 1 u. 2	$K = 0,5 \cdot q \cdot l$	$K = 0,6 \cdot q \cdot l$	$K = 0,7 \cdot q \cdot l$

$-0,311 Pl$	$-0,146 Kl$	$-0,146 Kl$	$-0,142 Kl$
$-0,089 Pl$	$-0,041 Kl$	$-0,041 Kl$	$-0,041 Kl$
$2,593 P$	$1,251 K$	$1,249 K$	$1,244 K$
$-1,311 P$	$-0,646 K$	$-0,645 K$	$-0,642 K$
$1,222 P$	$0,605 K$	$0,604 K$	$0,602 K$
$0,044 Pl$	$0,022 Kl$	$0,021 Kl$	$0,021 Kl$
$-0,178 Pl$	$-0,083 Kl$	$-0,083 Kl$	$-0,081 Kl$
$0,044 P$	$0,022 K$	$0,021 K$	$0,021 K$
$-0,222 P$	$-0,105 K$	$-0,104 K$	$-0,102 K$
$\{0,238 \mid 0,143\} Pl$	$0,104 Kl$	$0,103 Kl$	$0,098 Kl$
$\{0,079 \mid 0,111\} Pl$	$0,056 Kl$	$0,053 Kl$	$0,049 Kl$
$-0,286 Pl$	$-0,134 Kl$	$-0,133 Kl$	$-0,130 Kl$
$-0,190 Pl$	$-0,089 Kl$	$-0,088 Kl$	$-0,086 Kl$
$0,714 P$	$0,366 K$	$0,367 K$	$0,370 K$
$2,381 P$	$1,179 K$	$1,178 K$	$1,174 K$
$1,810 P$	$0,910 K$	$0,910 K$	$0,912 K$
$-1,286 P$	$-0,634 K$	$-0,633 K$	$-0,630 K$
$1,095 P$	$0,545 K$	$0,545 K$	$0,544 K$
$-0,905 P$	$-0,455 K$	$-0,455 K$	$-0,456 K$
$\{0,286 \mid 0,238\} Pl$	$0,134 Kl$	$0,132 Kl$	$0,126 Kl$
$\{0,127 \mid 0,111\} Pl$	$-0,056 Kl$	$-0,056 Kl$	$-0,055 Kl$
$-0,143 Pl$	$-0,067 Kl$	$-0,067 Kl$	$-0,066 Kl$
$-0,095 Pl$	$-0,045 Kl$	$-0,045 Kl$	$-0,044 Kl$
$0,857 P$	$0,433 K$	$0,433 K$	$0,425 K$

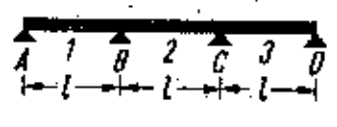
Tafel 10.3: Durchlaufträger mit gleichen Stützweiten bei feldweiser

Belastete Felder	Kraftgrößen	Belastung	
			

Träger mit 2 gleichen Feldern

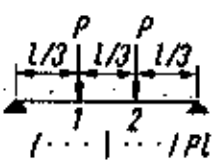
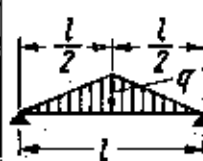
	M_1	$0,070 pl^2$	$0,156 Pl$
$\min M_b$	$-0,125 pl^2$	$0,188 Pl$	
M_b	$0,375 pl^2$	$0,312 P$	
$\max B$	$1,260 pl$	$1,375 P$	
$\min Q_{1b}$	$-0,625 pl$	$-0,688 P$	
$\max M_1$	$0,096 pl^2$	$0,203 Pl$	
M_b	$-0,063 pl^2$	$-0,094 Pl$	
$\max A$	$0,438 pl$	$0,406 P$	
$\min M_1$		$-0,047 Pl$	
$\min A$	$-0,068 pl$	$-0,094 P$	

Träger mit 3 gleichen Feldern

	M_1	$0,080 pl^2$	$0,175 Pl$
M_2	$0,025 pl^2$	$0,100 Pl$	
M_b	$-0,100 pl^2$	$-0,150 Pl$	
A	$0,400 pl$	$0,350 P$	
B	$1,100 pl$	$1,150 P$	
Q_{1b}	$-0,600 pl$	$-0,650 P$	
Q_{2b}	$0,500 pl$	$0,500 P$	
$\max M_1$	$0,101 pl^2$	$0,213 Pl$	
$\min M_2$	$-0,060 pl^2$	$-0,075 Pl$	
M_b	$-0,050 pl^2$	$-0,075 Pl$	
$\max A$	$0,460 pl$	$0,425 P$	
$\min M_1$		$-0,038 Pl$	
$\max M_2$	$0,075 pl^2$	$0,175 Pl$	
M_b	$-0,050 pl^2$	$-0,075 Pl$	
$\min A$	$-0,050 pl$	$-0,075 P$	

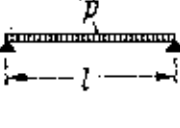
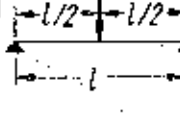
Belastung

Art der Belastung

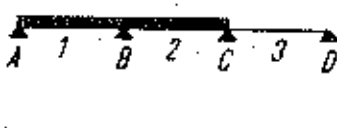
			
M in den Punkten 1 u. 2	$K = 0,5 \cdot q \cdot l$	$K = 0,6 \cdot q \cdot l$	$K = 0,7 \cdot q \cdot l$

$(0,222 \mid 0,111) Pl$	$0,095 Kl$	$0,094 Kl$	$0,089 Kl$
$-0,333 Pl$	$-0,150 Kl$	$-0,165 Kl$	$-0,151 Kl$
$0,667 P$	$0,344 K$	$0,345 K$	$0,349 K$
$2,007 P$	$1,312 K$	$1,310 K$	$1,302 K$
$-1,333 P$	$-0,656 K$	$-0,655 K$	$-0,651 K$
$(0,278 \mid 0,222) Pl$	$0,129 Kl$	$0,126 Kl$	$0,121 Kl$
$-0,167 Pl$	$-0,078 Kl$	$-0,078 Kl$	$-0,076 Kl$
$0,833 P$	$0,422 K$	$0,422 K$	$0,424 K$
$-(0,056 \mid 0,111) Pl$	$-0,036 Kl$	$-0,035 Kl$	$-0,034 Kl$
$-0,167 P$	$-0,078 K$	$-0,078 K$	$-0,076 K$
$(0,244 \mid 0,156) Pl$	$0,108 Kl$	$0,107 Kl$	$0,102 Kl$
$0,067 Pl$	$0,042 Kl$	$0,040 Kl$	$0,036 Kl$
$-0,267 Pl$	$-0,126 Kl$	$-0,124 Kl$	$-0,121 Kl$
$0,723 P$	$0,376 K$	$0,376 K$	$0,370 K$
$2,207 P$	$1,125 K$	$1,124 K$	$1,121 K$
$-1,267 P$	$-0,625 K$	$-0,624 K$	$-0,621 K$
$1,000 P$	$0,500 K$	$0,500 K$	$0,500 K$
$(0,289 \mid 0,244) Pl$	$0,136 Kl$	$0,134 Kl$	$0,128 Kl$
$-0,133 Pl$	$-0,063 Kl$	$-0,062 Kl$	$-0,061 Kl$
$-0,133 Pl$	$-0,063 Kl$	$-0,062 Kl$	$-0,061 Kl$
$0,867 P$	$0,437 K$	$0,438 K$	$0,439 K$
$-(0,044 \mid 0,089) Pl$	$-0,028 Kl$	$-0,028 Kl$	$-0,027 Kl$
$0,200 Pl$	$0,104 Kl$	$0,102 Kl$	$0,096 Kl$
$-0,133 Pl$	$-0,063 Kl$	$-0,062 Kl$	$-0,061 Kl$
$-0,133 P$	$-0,063 K$	$-0,062 K$	$-0,061 K$

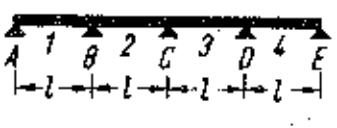
Tafel 10.3: Durchlaufträger mit gleichen Stützweiten bei feldweiser

Belastete Felder	Kraftgrößen	Belastung	
			

Noch Träger mit 3 gleichen Feldern

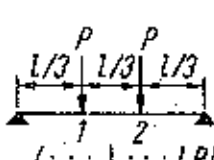
	$\min M_b$	$-0,117 pl^2$	$-0,176 Pl$
M_c	$-0,033 pl^2$	$-0,050 Pl$	
$\max B$	$1,200 pl$	$1,300 P$	
$\min Q_{1b}$	$-0,617 pl$	$-0,675 P$	
$\max Q_{2b}$	$0,583 pl$	$0,626 P$	
$\max M_b$	$0,017 pl^2$	$0,025 Pl$	
M_c	$-0,067 pl^2$	$-0,100 Pl$	
$\max Q_{1b}$	$0,017 pl$	$0,025 P$	
$\min Q_{2b}$	$-0,083 pl$	$-0,125 P$	

Träger mit 4 gleichen Feldern

	M_1	$0,077 pl^2$	$0,170 Pl$
M_2	$0,036 pl^2$	$0,116 Pl$	
M_b	$-0,107 pl^2$	$-0,161 Pl$	
M_c	$-0,071 pl^2$	$-0,107 Pl$	
A	$0,393 pl$	$0,339 P$	
B	$1,143 pl$	$1,214 P$	
C	$0,929 pl$	$0,892 P$	
Q_{1b}	$-0,607 pl$	$-0,661 P$	
Q_{2b}	$0,586 pl$	$0,554 P$	
Q_{2c}	$-0,464 pl$	$-0,446 P$	
$\max M_1$	$0,100 pl^2$	$0,210 Pl$	
$\min M_2$		$-0,067 Pl$	
$M_b = M_d$	$-0,054 pl^2$	$-0,080 Pl$	
M_c	$-0,036 pl^2$	$-0,054 Pl$	
$\max A$	$0,448 pl$	$0,420 P$	

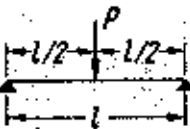
Belastung (Fortsetzung)

Art der Belastung

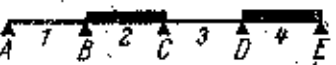
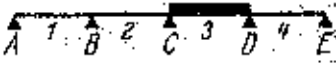
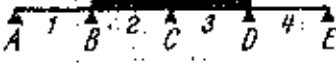
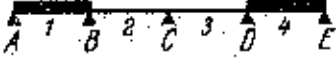
			
M in den Punkten 1 u. 2	$K = 0,5 \cdot q \cdot l$	$K = 0,6 \cdot q \cdot l$	$K = 0,7 \cdot q \cdot l$

$-0,311 Pl$	$-0,146 Kl$	$-0,146 Kl$	$-0,142 Kl$
$-0,089 Pl$	$-0,041 Kl$	$-0,041 Kl$	$-0,041 Kl$
$2,593 P$	$1,251 K$	$1,249 K$	$1,244 K$
$-1,311 P$	$-0,646 K$	$-0,645 K$	$-0,642 K$
$1,222 P$	$0,605 K$	$0,604 K$	$0,602 K$
$0,044 Pl$	$0,022 Kl$	$0,021 Kl$	$0,021 Kl$
$-0,178 Pl$	$-0,083 Kl$	$-0,083 Kl$	$-0,081 Kl$
$0,044 P$	$0,022 K$	$0,021 K$	$0,021 K$
$-0,222 P$	$-0,105 K$	$-0,104 K$	$-0,102 K$
$(0,238 \mid 0,143) Pl$	$0,104 Kl$	$0,103 Kl$	$0,098 Kl$
$(0,079 \mid 0,111) Pl$	$0,056 Kl$	$0,053 Kl$	$0,049 Kl$
$-0,286 Pl$	$-0,134 Kl$	$-0,133 Kl$	$-0,130 Kl$
$-0,190 Pl$	$-0,089 Kl$	$-0,088 Kl$	$-0,086 Kl$
$0,714 P$	$0,366 K$	$0,367 K$	$0,370 K$
$2,381 P$	$1,179 K$	$1,178 K$	$1,174 K$
$1,810 P$	$0,910 K$	$0,910 K$	$0,912 K$
$-1,286 P$	$-0,634 K$	$-0,633 K$	$-0,630 K$
$1,005 P$	$0,545 K$	$0,545 K$	$0,544 K$
$-0,905 P$	$-0,455 K$	$-0,455 K$	$-0,456 K$
$(0,286 \mid 0,238) Pl$	$0,134 Kl$	$0,132 Kl$	$0,126 Kl$
$-(0,127 \mid 0,111) Pl$	$-0,056 Kl$	$-0,053 Kl$	$-0,055 Kl$
$-0,143 Pl$	$-0,067 Kl$	$-0,067 Kl$	$-0,065 Kl$
$-0,095 Pl$	$-0,045 Kl$	$-0,045 Kl$	$-0,044 Kl$
$0,857 P$	$0,433 K$	$0,433 K$	$0,425 K$

Tafel 10.3: Durchlaufträger mit gleichen Stützweiten bei feldweiser

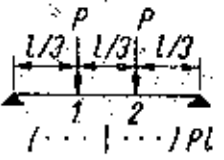
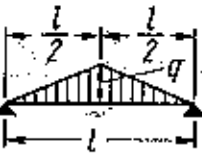
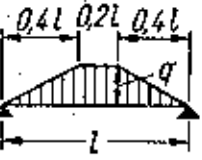
Belastete Felder	Kraftgrößen	Belastung	
			

Noch Träger mit 4 gleichen Feldern

	$\min M_1$ $\max M_2$ $M_b = M_d$ M_e $\min A$	$—$ $0,080 pl^2$ $—0,054 pl^2$ $—0,036 pl^2$ $—0,054 pl$	$—0,040 Pl$ $0,183 Pl$ $—0,080 Pl$ $—0,064 Pl$ $—0,080 P$
	$\min M_5$ M_6 M_d $\max B$ $\min Q_{1b}$ $\max Q_{2b}$	$—0,121 pl^2$ $—0,018 pl^2$ $—0,058 pl^2$ $1,223 pl$ $—0,621 pl$ $0,603 pl$	$—0,181 Pl$ $—0,021 Pl$ $—0,087 Pl$ $1,335 P$ $—0,681 P$ $0,654 P$
	$\max M_4$ M_6 M_d $\min B$ $\max Q_{1b}$ $\min Q_{2b}$	$0,013 pl^2$ $—0,054 pl^2$ $—0,049 pl^2$ $—0,080 pl$ $0,013 pl$ $—0,067 pl$	$0,020 Pl$ $—0,080 Pl$ $—0,074 Pl$ $—0,121 P$ $0,020 P$ $0,100 P$
	M_b $\min M_5$ $\max C$ $\min Q_{2c}$	$—0,036 pl^2$ $—0,107 pl^2$ $1,143 pl$ $—0,671 pl$	$—0,064 Pl$ $—0,161 Pl$ $1,214 P$ $—0,607 P$
	M_b $\max M_6$ $\min C$ $\max Q_{3c}$	$—0,071 pl^2$ $0,036 pl^2$ $—0,214 pl$ $0,107 pl$	$—0,107 Pl$ $0,054 Pl$ $—0,321 P$ $0,161 P$

Belastung (Fortsetzung)

Art der Belastung

			
M in den Punkten 1 u. 2	$K = 0,5 \cdot q \cdot l$	$K = 0,6 \cdot q \cdot l$	$K = 0,7 \cdot q \cdot l$

$—(0,048 0,095) Pl$ $(0,206 0,222) Pl$ $—0,143 Pl$ $—0,095 Pl$ $—0,143 P$	$—0,030 Kl$ $0,111 Kl$ $—0,067 Kl$ $—0,045 Kl$ $—0,067 K$	$—0,030 Kl$ $0,108 Kl$ $—0,067 Kl$ $—0,045 Kl$ $—0,067 K$	$—0,029 Kl$ $0,103 Kl$ $—0,065 Kl$ $—0,044 Kl$ $—0,065 K$
$—0,321 Pl$ $—0,048 Pl$ $—0,155 Pl$ $2,595 P$ $—1,321 P$ $1,274 P$	$—0,161 Kl$ $—0,023 Kl$ $—0,072 Kl$ $1,270 K$ $—0,651 K$ $0,628 K$	$—0,150 Kl$ $—0,022 Kl$ $—0,072 Kl$ $1,278 K$ $—0,650 K$ $0,628 K$	$—0,146 Kl$ $—0,022 Kl$ $—0,070 Kl$ $1,270 K$ $—0,646 K$ $0,624 K$
$0,036 Pl$ $—0,143 Pl$ $—0,131 Pl$ $—0,214 P$ $0,036 P$ $—0,178 P$	$0,017 Kl$ $—0,066 Kl$ $—0,062 Kl$ $—0,100 K$ $0,017 K$ $—0,083 K$	$0,017 Kl$ $—0,066 Kl$ $—0,061 Kl$ $—0,100 K$ $0,017 K$ $—0,083 K$	$0,016 Kl$ $—0,064 Kl$ $—0,060 Kl$ $—0,096 K$ $0,016 K$ $—0,080 K$
$—0,095 Pl$ $—0,236 Pl$ $2,381 P$ $—1,191 P$	$—0,045 Kl$ $—0,124 Kl$ $1,178 K$ $—0,589 K$	$—0,045 Kl$ $—0,133 Kl$ $1,176 K$ $—0,588 K$	$—0,044 Kl$ $—0,130 Kl$ $1,172 K$ $—0,586 K$
$—0,190 Pl$ $0,095 Pl$ $—0,671 P$ $0,286 P$	$—0,089 Kl$ $0,045 Kl$ $—0,268 K$ $0,134 K$	$—0,088 Kl$ $0,045 Kl$ $—0,266 K$ $0,133 K$	$—0,086 Kl$ $0,044 Kl$ $—0,260 K$ $0,130 K$