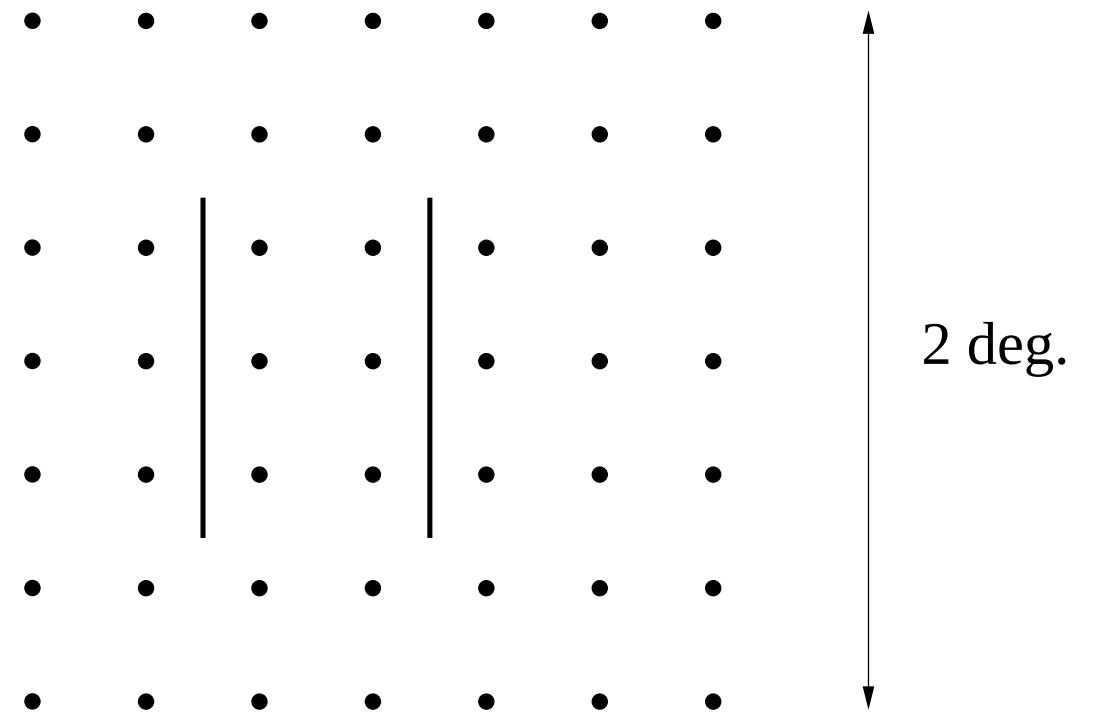
Front View of Stimulus



Plan View of Stimulus

Figure 1

Biases in Perceived Depth
Slanted Grid

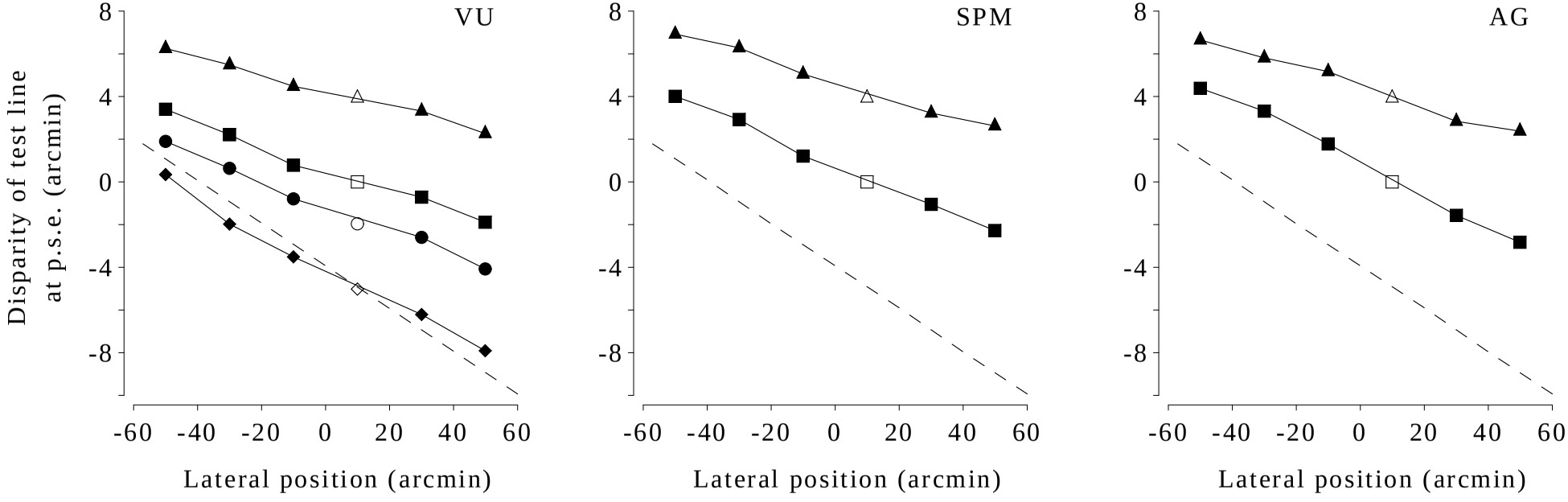
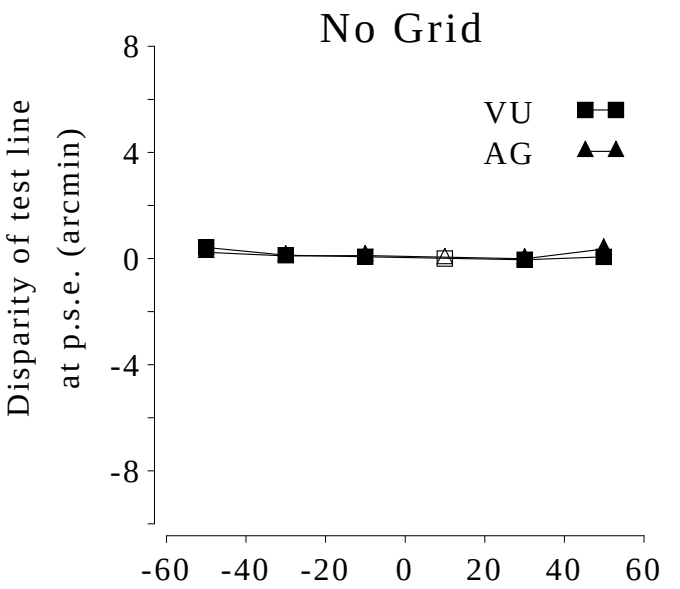
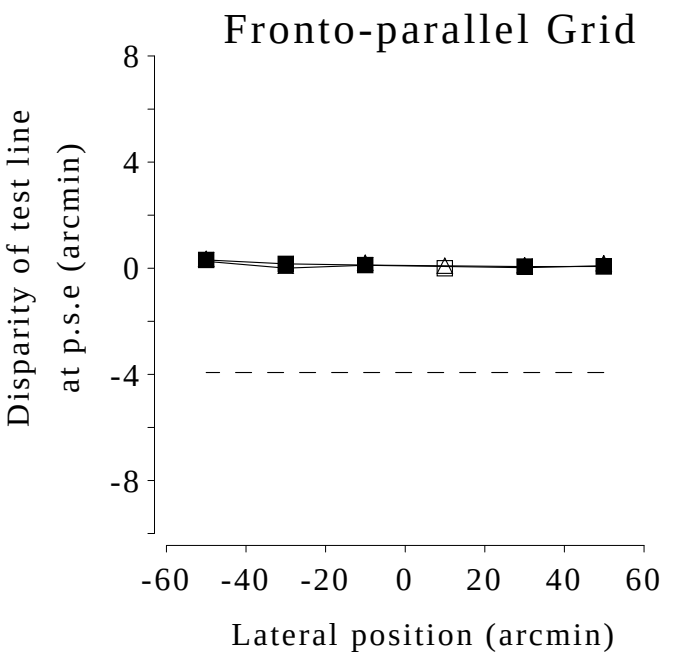


Figure 2


No Grid
VU
AG
Disparity of test line
at p.s.e. (arcmin)
8
4
0
-4
-8
-60
-40
-20
0
20
40
60

(a)


Fronto-parallel Grid
Disparity of test line
at p.s.e (arcmin)
8
4
0
-4
-8
-60
-40
-20
0
20
40
60
Lateral position (arcmin)

(b)

Figure 3

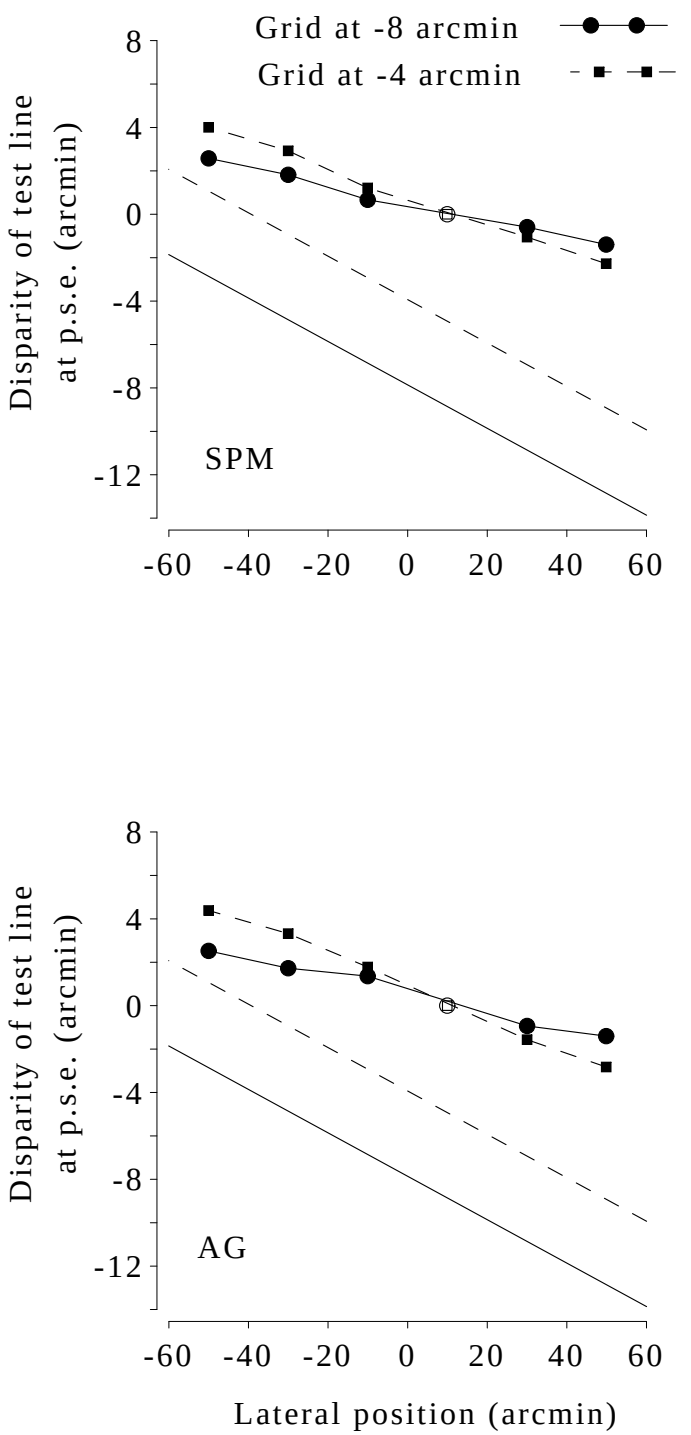

Grid at -8 arcmin
Grid at -4 arcmin
Disparity of test line at p.s.e. (arcmin)
8
4
0
-4
-8
-12
SPM
-60
-40
-20
0
20
40
60
AG
Lateral position (arcmin)

Figure 4

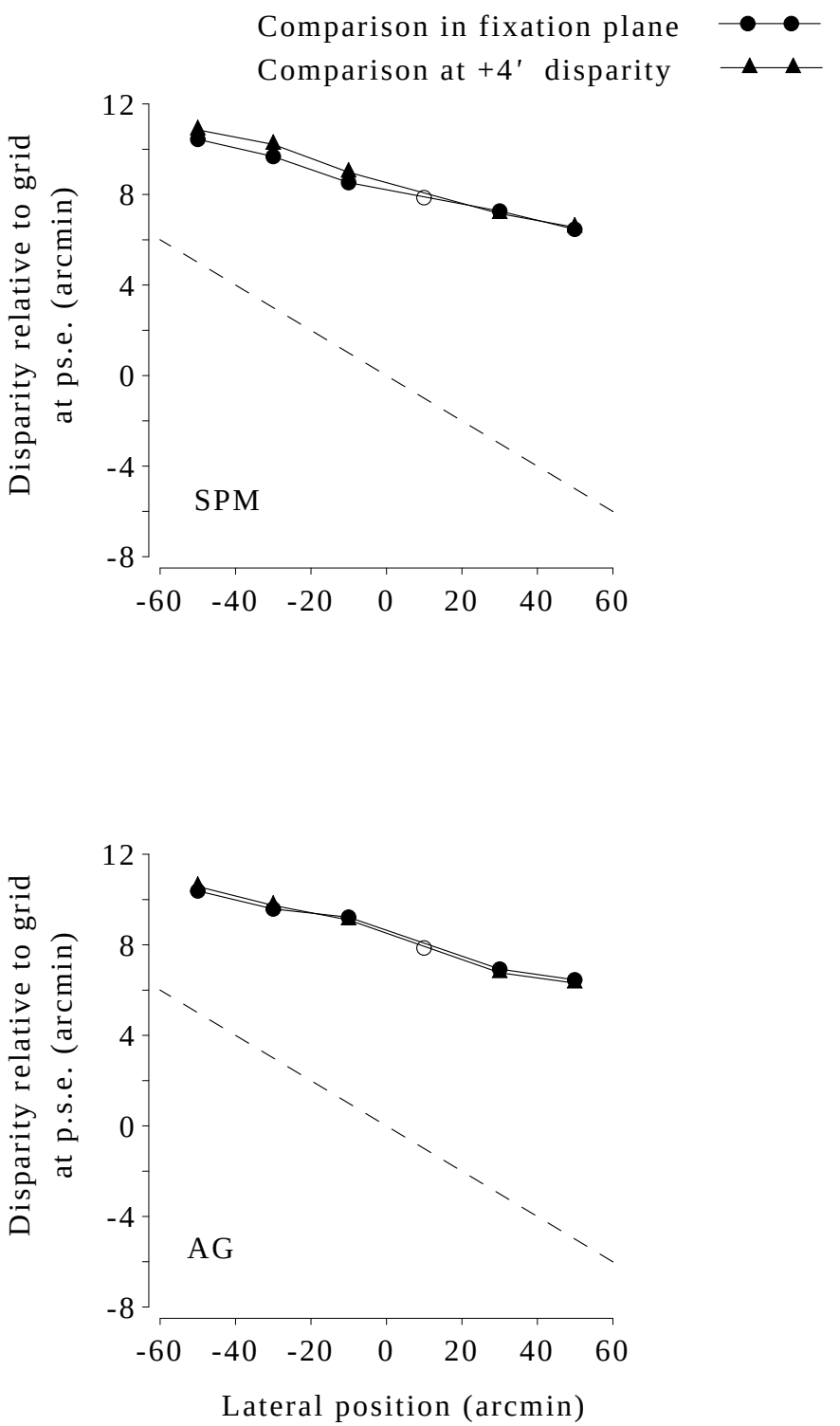

Comparison in fixation plane
Comparison at +4′ disparity
Disparity relative to grid at ps.e. (arcmin)
12
8
4
0
-4
-8
SPM
-60
-40
-20
0
20
40
60
Disparity relative to grid at p.s.e. (arcmin)
AG
Lateral position (arcmin)

Figure 5

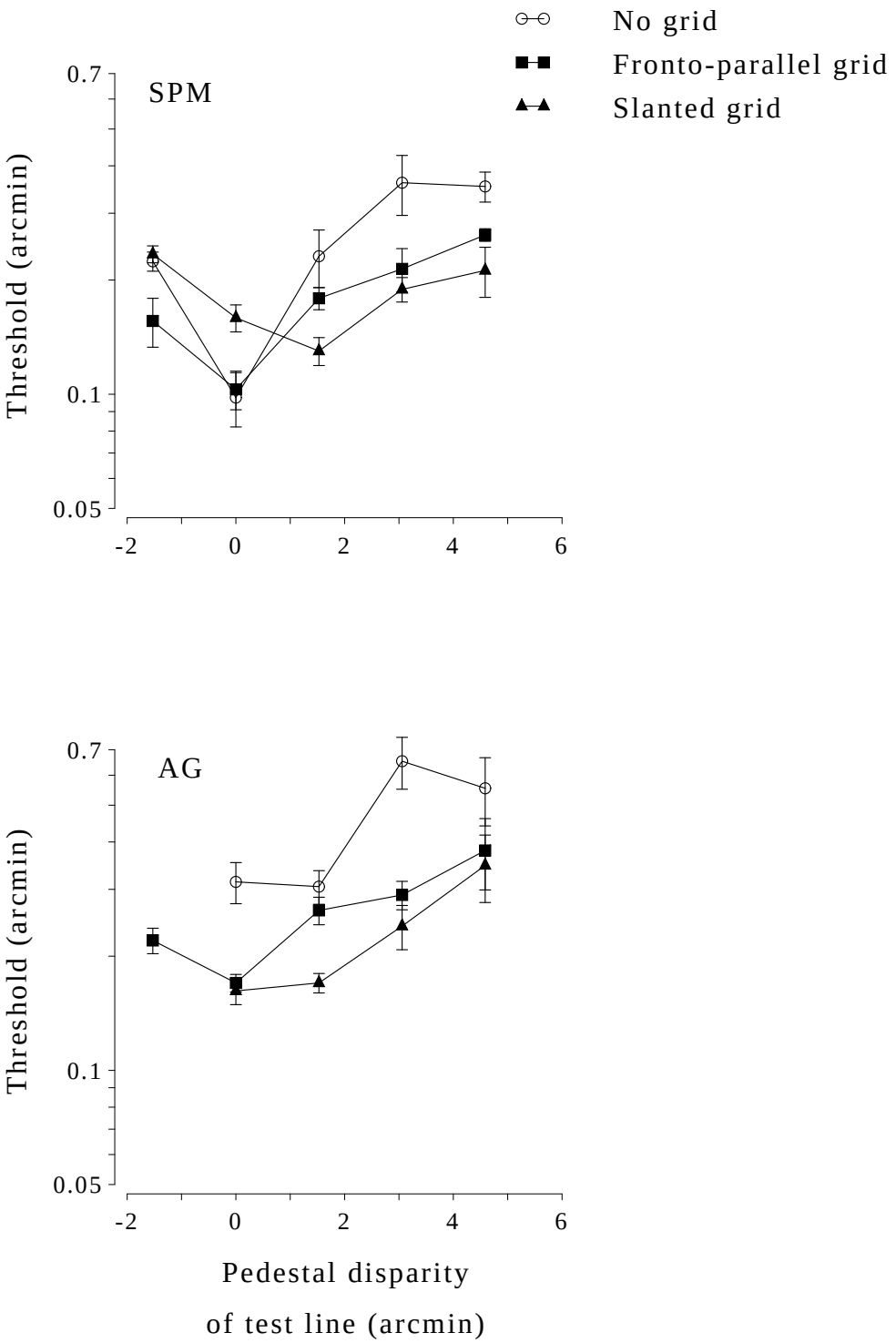

No grid
Fronto-parallel grid
Slanted grid
SPM
AG
Threshold (arcmin)
0.7
0.1
0.05
-2
0
2
4
6
Pedestal disparity
of test line (arcmin)

Figure 6

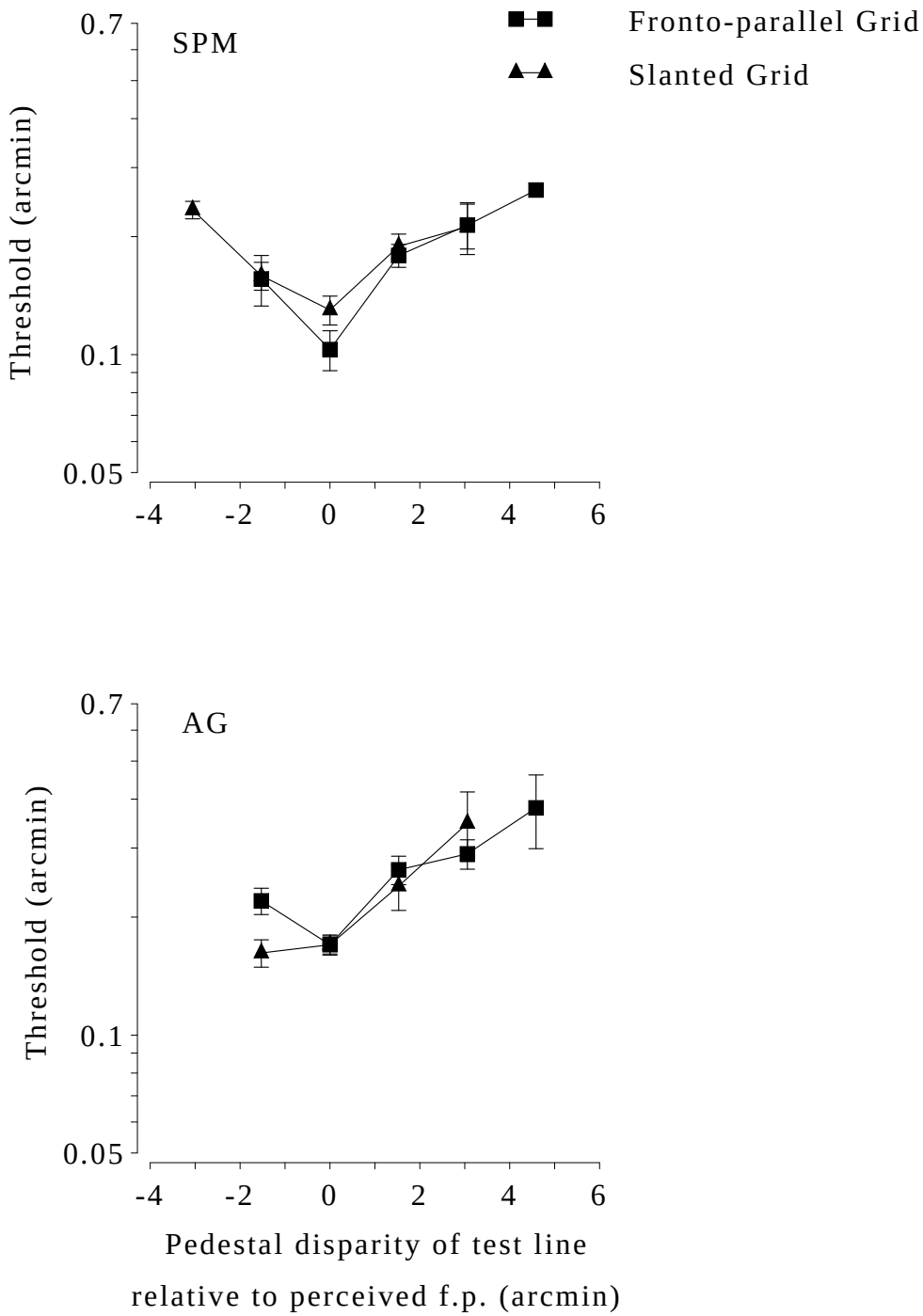
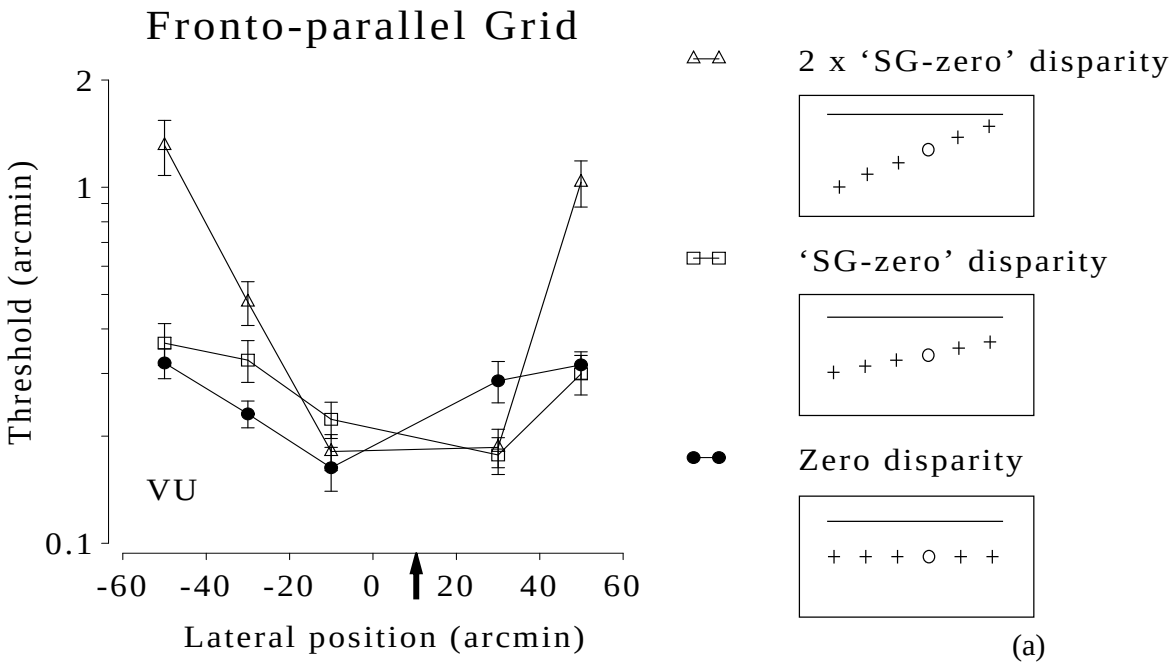

Fronto-parallel Grid
Slanted Grid
SPM
AG
Threshold (arcmin)
0.7
0.1
0.05
-4
-2
0
2
4
6
Pedestal disparity of test line
relative to perceived f.p. (arcmin)

Figure 7


Fronto-parallel Grid
Threshold (arcmin)
2
1
0.1
VU
-60 -40 -20 0 20 40 60
Lateral position (arcmin)
2 x 'SG-zero' disparity
'SG-zero' disparity
Zero disparity
(a)

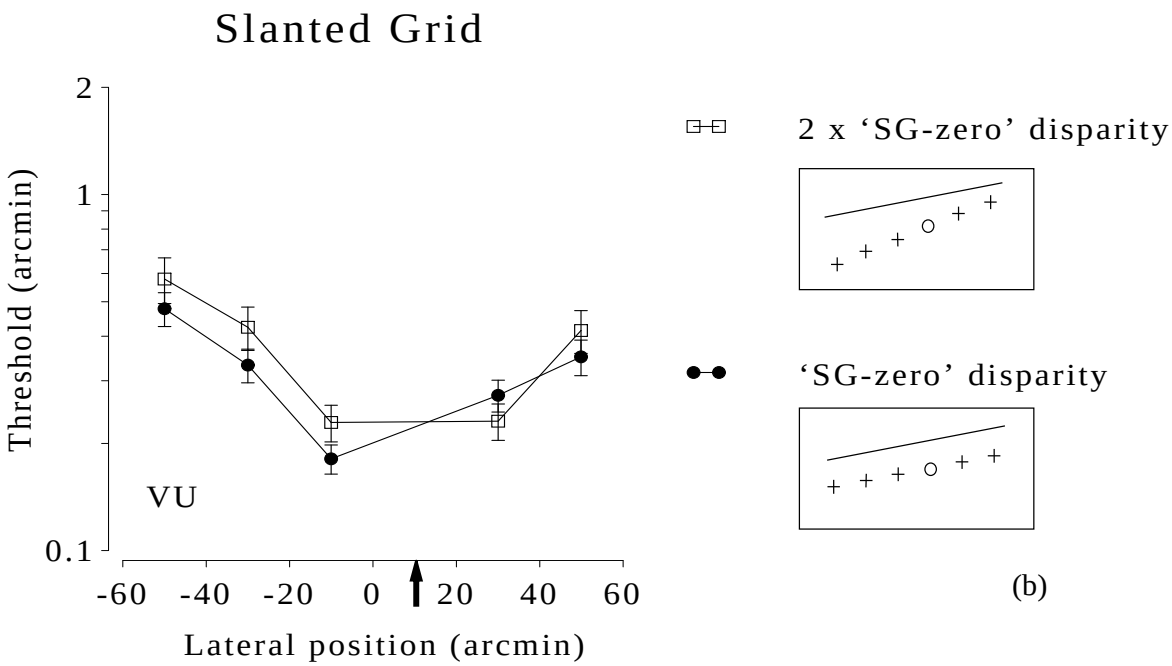

Slanted Grid
Threshold (arcmin)
2
1
0.1
VU
-60 -40 -20 0 20 40 60
Lateral position (arcmin)
2 x 'SG-zero' disparity
'SG-zero' disparity
(b)

Figure 8

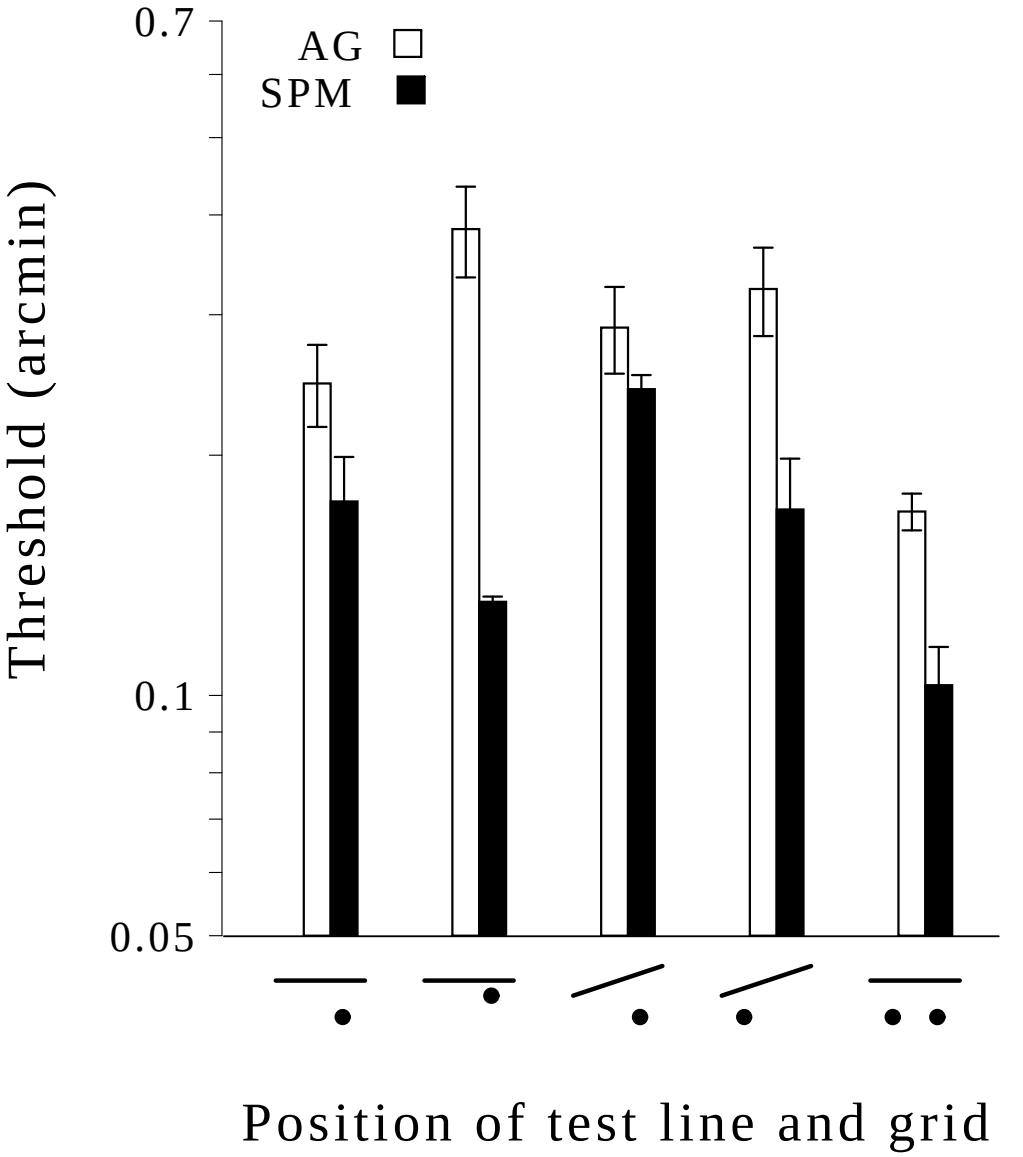

0.7
AG
SPM
Threshold (arcmin)
0.1
0.05
Position of test line and grid

Figure 9

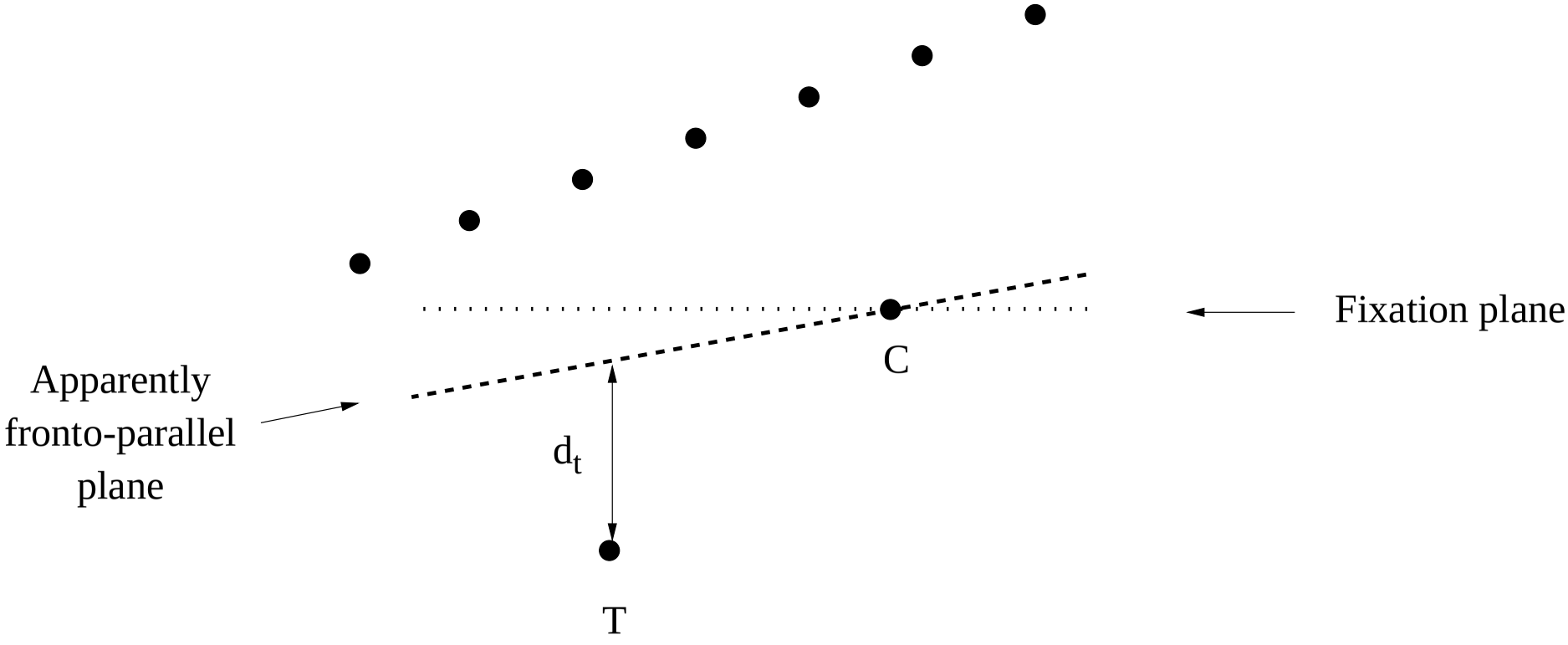
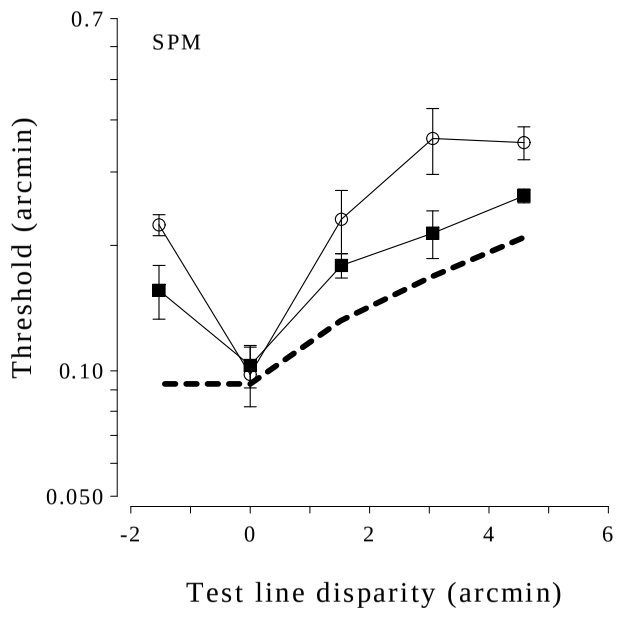
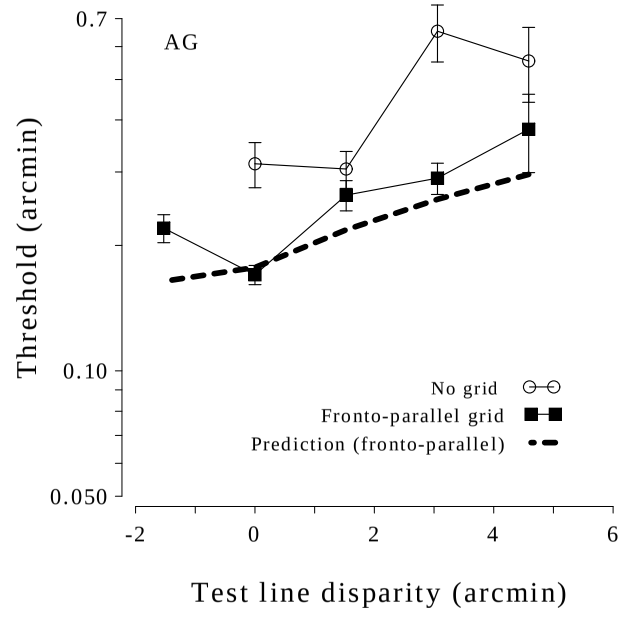
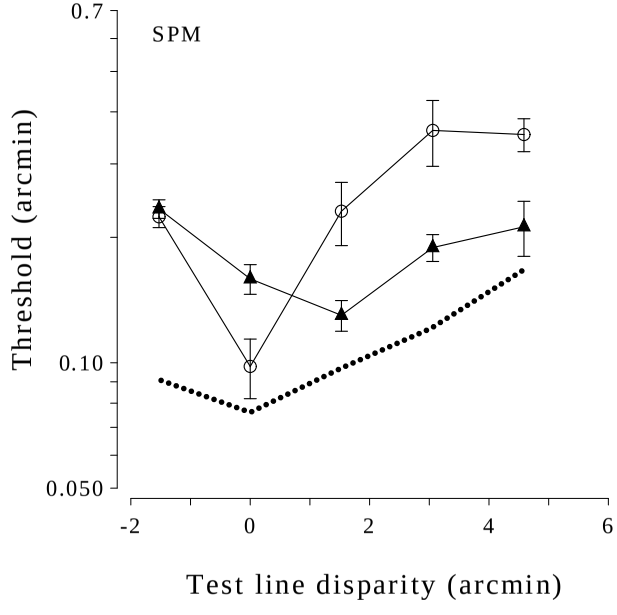


Figure 10


SPM
Threshold (arcmin)
0.7
0.10
0.050
-2
0
2
4
6
Test line disparity (arcmin)


AG
Threshold (arcmin)
0.7
0.10
0.050
No grid
Fronto-parallel grid
Prediction (fronto-parallel)
-2
0
2
4
6
Test line disparity (arcmin)


SPM
Threshold (arcmin)
0.7
0.10
0.050
-2
0
2
4
6
Test line disparity (arcmin)

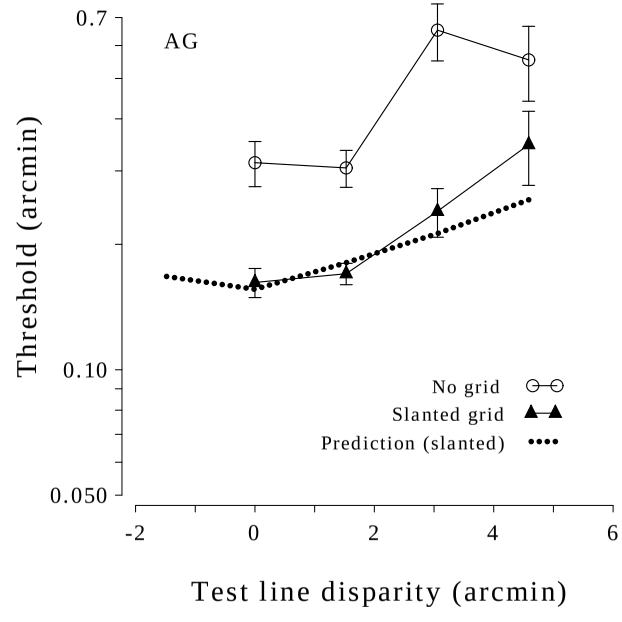
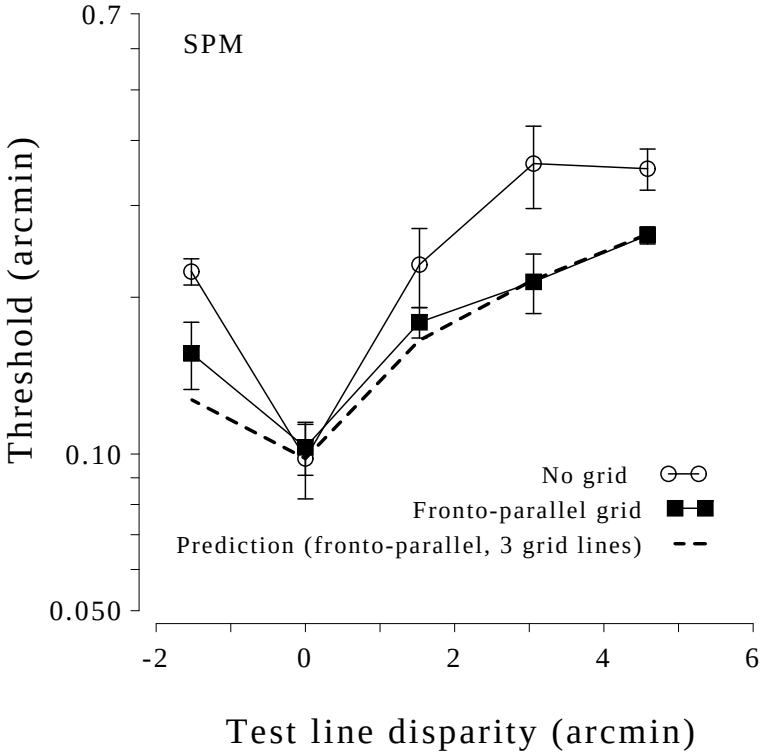

AG
Threshold (arcmin)
0.7
0.10
0.050
No grid
Slanted grid
Prediction (slanted)
-2
0
2
4
6
Test line disparity (arcmin)

Figure 11


SPM
Threshold (arcmin)
0.7
0.10
0.050
-2
0
2
4
6
No grid
Fronto-parallel grid
Prediction (fronto-parallel, 3 grid lines)
Test line disparity (arcmin)

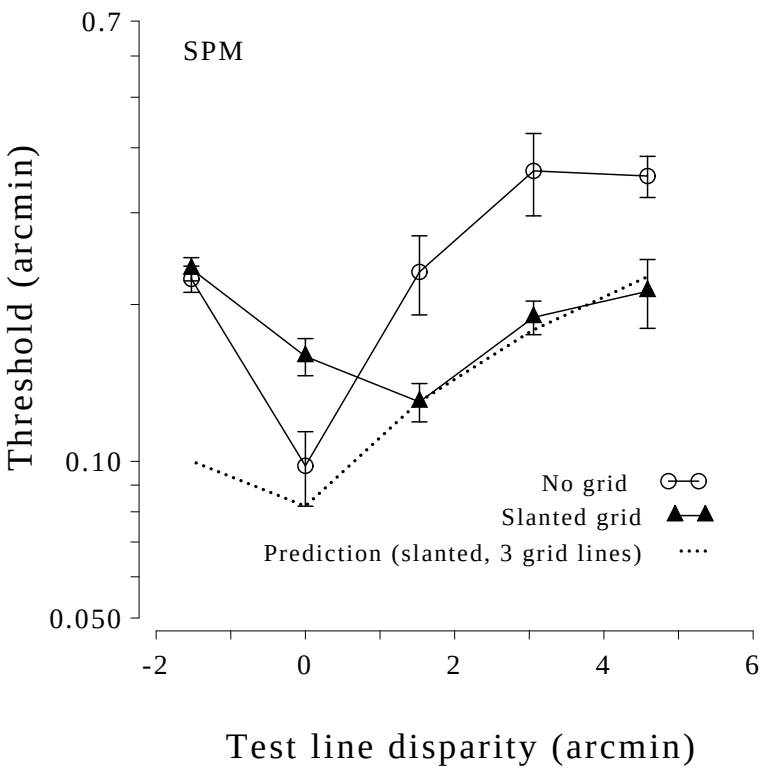

SPM
Threshold (arcmin)
0.7
0.10
0.050
-2
0
2
4
6
No grid
Slanted grid
Prediction (slanted, 3 grid lines)
Test line disparity (arcmin)

Figure 12

Figure	Subject	Disparity of comparison line (arcmin)	Slope (s.e.)	Regression coefficient (r)
2	VU	-5	-0.079 (0.0044)	-0.995
		-2	-0.058 (0.0027)	-0.997
		0	-0.051 (0.0032)	-0.994
		4	-0.039 (0.0021)	-0.996
	SPM	0	-0.063 (0.0023)	-0.998
		4	-0.045 (0.0022)	-0.996
	AG	0	-0.075 (0.0027)	-0.998
		4	-0.045 (0.0029)	-0.994
4	SPM	0 (grid at -8)	-0.039 (0.0021)	-0.996
	AG	0 (grid at -8)	-0.041 (0.0034)	-0.990

Table 1