

B., 1999, 2001; A., 2002; B., 2001; S., 2002; K., 1994, 1998).

H., (A., 2002; B., 2001; S., 2002; D., 2003; F., 1999, 2001; K., 1994, 1998). T., R., F., (1999).

I., (A., 2002; B., 2001; S., 2002; D., 2003; F., 1999, 2001; K., 1994, 1998). T., R., F., (1999).

I., (A., 2002; B., 2001; S., 2002; D., 2003; F., 1999, 2001; K., 1994, 1998). T., R., F., (1999).

H., (A., 2002; B., 2001; S., 2002; D., 2003; F., 1999, 2001; K., 1994, 1998). T., R., F., (1999).

F., (1999). I., (A., 2002; B., 2001; S., 2002; D., 2003; F., 1999, 2001; K., 1994, 1998). T., R., F., (1999).

I., (A., 2002; B., 2001; S., 2002; D., 2003; F., 1999, 2001; K., 1994, 1998). T., R., F., (1999).

I., (A., 2002; B., 2001; S., 2002; D., 2003; F., 1999, 2001; K., 1994, 1998). T., R., F., (1999).

1.2. Using perceived spatial separation to compare energetic and informational masking

I., (A., 2002; B., 2001; S., 2002; D., 2003; F., 1999, 2001; K., 1994, 1998). T., R., F., (1999).

F., (1999). I., (A., 2002; B., 2001; S., 2002; D., 2003; F., 1999, 2001; K., 1994, 1998). T., R., F., (1999).

P., 1988; (A., 2002; B., 2001; S., 2002; D., 2003; F., 1999, 2001; K., 1994, 1998). T., R., F., (1999).

B (F, 1999), T, I, C

1.3. Energetic and informational masking in Mandarin Chinese

I F (1999) M - C T, C, I, E M C F, S C, T C : (), E C, T C, I, E C (K, 1998). O E F, M M, B

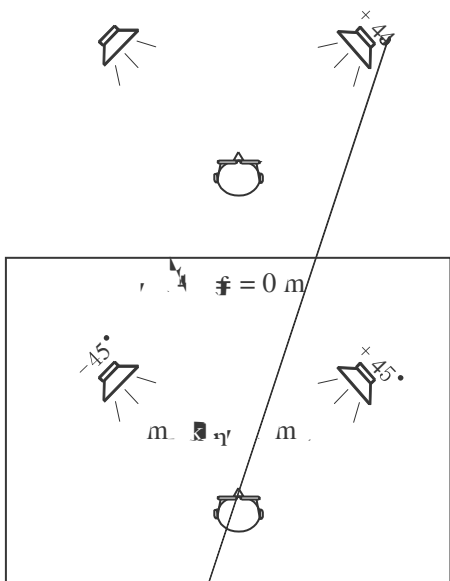
2. Materials and methods

2.1. Participants

T (= 21.1, 15 B, M C, T

2.2. Apparatus and materials

P - 181, A E A (EMI S). 22.05 H 24- C E, P I (C I 4.1), 45° T, T 1.5, C (T A). T E (1997) (1999, 2001). T I () N



M (, 1991), L
 SNR y, μ SNR
 50%
 σ
 F . 3 SNR
 SNR
 (NL); (2)
 (NC); (3) : (1)
 (SL); (5) (NR); (4)

(SC); (6) (SR).
 T y
 50% F . 3 SNR M
 F . 4. F SNR
 NR (NL NC SR)
 SL SC SR
 H
 (NR SR), T
 L) y 2 (M) (P
 ANO A M , F(1,11) = 13.719,
 MSE = 2.359, $p = 0.003$, P
 L , F(2,22) = 21.984, MSE = 1.801,
 $p < 0.001$, M
 P L , F(2,22) = 3.503, MSE = 2.794,
 $p = 0.048$. T
 ANO A
 F
 $F(2,22) = 3.430$, MSE = 1.898,
 $p = 0.051$. H
 $F(2,22) = 15.896$, MSE = 2.697, $p = 0.000$. P
 (p = 1.000)
 (p < 0.001, p = 0.003,
 F . 5
 I
 H AN-
 O A
 M , F(1,11) = 22.595, MSE = 0.009, $p = 0.001$,
 L
 $F(2,22) = 1.691$, MSE = 0.007, $p = 0.207$,
 M P L
 $F(2,22) = 0.126$, $p = 0.883$,
 F . 6 ()
 SNR I
 ANO A, y
 (F . 6 ())
 F . 6 ()

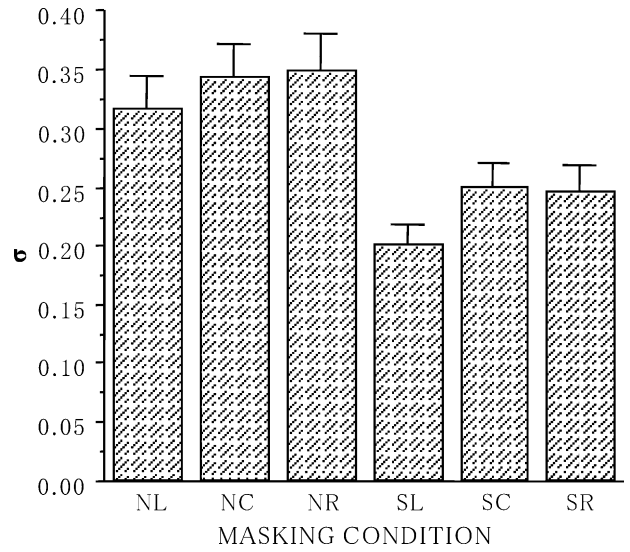
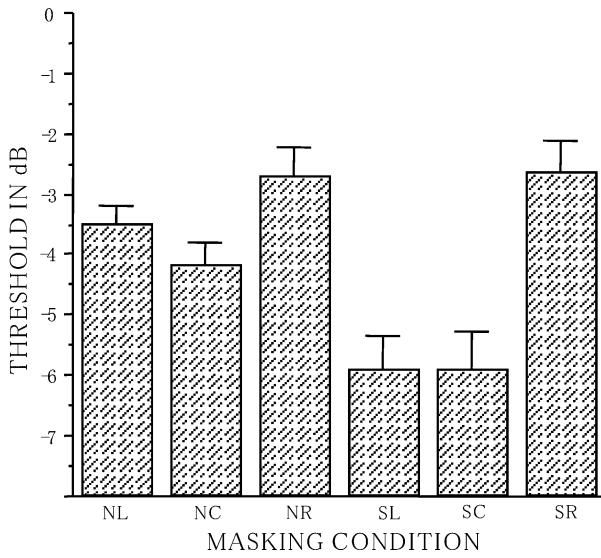


Fig. 4. Mean threshold (50% correct) for six masking conditions: (1) NL; (2) NC; (3) NR; (4) SL; (5) SC; (6) SR.

Fig. 5. Mean σ for six masking conditions: (1) NL; (2) NC; (3) NR; (4) SL; (5) SC; (6) SR.

... (NL); (2) ... (NC); (3) ... (NR); (4) ... (SL); (5) ... (SC); (6) ... (SR). ...

... (NL); (2) ... (NC); (3) ... (NR); (4) ... (SL); (5) ... (SC); (6) ... (SR). ...

4. Discussion

... SNR ... (2 M ... (B ... 2001; F ... , 1999). I ...

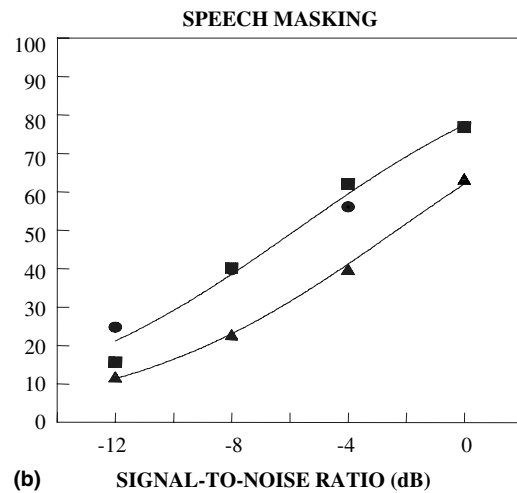
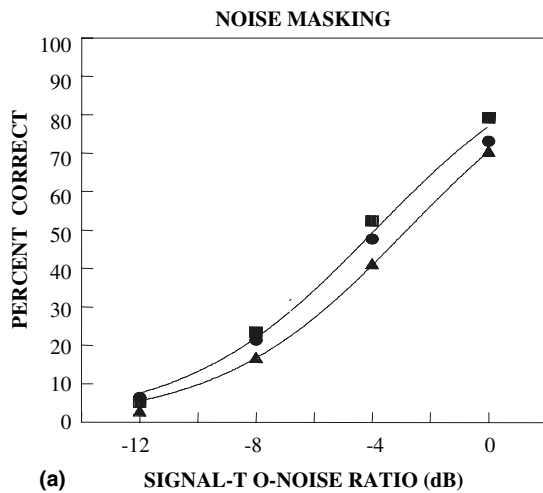


Fig. 6. Mean percent correct for six masking conditions: (1) NL; (2) NC; (3) NR; (4) SL; (5) SC; (6) SR.

Fig. 6. Mean percent correct for six masking conditions: (1) NL; (2) NC; (3) NR; (4) SL; (5) SC; (6) SR.

K , J., 1998. C 'y ' E C . J. A . S . A . 103, 1213 1216.

K , J., B , J.M., 1996. A 'y . E . H . 17, 211 217.

K , G., M , C.R., D ' , P.S., , .S., C , H.S., 1994. R 'y . J. A . S . A . 95, 3475 3480.

K , G., M , C.R., R , T.L., D ' , P.S., 1998. R 'y . J. A . S . A . 104, 422 431.

L , L., , Q., 2002. A 'y . H . R . 168, 113 124.

L 'y R. , C , H.S., .A., G , S.J., 1999. T . J. A . S . A . 106, 1633 1654.

, S., 1991. M : AS' y D M 'y C . A - ,yN ' . , H., N ' , E.B., R ' , M.R., 1949. T . A . J. P 'y . 62, 315 336.

, P.M., 1980. T . J. A . S . A . 67, 952 964.

, P.M., 1993. B 'yI : S , G.A., H , I. (E), A F A H A P . A 'y B , B , MA.