C

: E

' , J , ' ,*

.

G (1963),

( 36: '&

, ' . 92 96).

(D & D D , 1999; F
., 1999). F

– '& ' ( > > G ),

(C , 2005; H & , 2002; , 1992). C

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– ( ) . ( )
(A -F , 2009; A , L , F , &
G , 2012).

(A – , , &
G , 2002; C , 2005; I , G -A , & -C –
, 1999).

. F ,
H (2010)

,

( . . *prototipio famoso* . **prototipo famosa*)
( . . *prototipo famoso* . **prototipo famosos*).
A , ,
F H . I

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( . (2011) ).
I E
600
( , , , & C , 2011; ., 2007),

. A
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(C , C , B , & H , 2010). H ,
. (2011), 600

(F ., 1999),
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, 600. C
, B C (2005) 600
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### 1.3. Agreement processing in pronoun–antecedent coindexation

, . I , –
– ( – )
– (G , 1998; H , J –
, L , & , 2008; , K , & A , 2005).
( . . –
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(C , 2008; G –
& , 1990, 1994; G & , 2000). I
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. A (C , 2008),
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H . (2008)
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( *person* ), ( *thing* ).
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. , , C , / (2012)
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C ,
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– , –
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600 .
– –

( 600) (H , J , L , &
, 2005; L , J , H , & , 2008; ,
B , & L , 1997; & , 1995),
400 (L , J –
, H , & , 2006; ., 2002). I
– –
. –

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, - (*Nref*) ( - & B , 2006, 2008; B , B & H , 1999; B , B , H , & , 2003).

, ( 600) (K , H , G , & H , 2000; & B , 2006; B , K , , & , 2007). A - , 600 (L & , 2010; & , 1995) ( . ., *Four ships appeared on the horizon, six had sunk*; K , D , & B , 2007). *Nref* -

600 - ( , - ) - .

. (1995) - ( ) - 600 ,

- . H , ( - ). I ( ) - .

### 1.4. The present study

I , . B - , “ - - . - C . C

. I C , , , - . F - , , 他 “ ,” 她 “ ,” “ /. - , . I - , ( . ., )

( ., 1997).

- E . H , C , . C 们 (/ /) , 我 (/ /, “ ), 你 (/ /,“ ), 他 (/ /,“ ) 她 (/ /,“ ), 我们 (/ /,“ ), 你们 (/ /,“ ), 他们 (/ /,“ , 她们 (/ /, ). A - . L 们 (/ /) - (I , 1994; L , 1999), 们 (/ /) –*s* E (L & , 2000). , - - , ( ) (B ., 2004; K , G , & , 2012). A ’ - , - “ .“ . G C ,

- . , - C - . A - , E - , . 1 E 1, - , 4 . - ( . ., , . . , - ., 2010), , / . E 2 . E - - . E - - . G , 600 . H , (E 1), *Nref*

**Table 1**
E - E 1.

| C | E |
|---|---|
| C | 这位女患者情绪低落,医生/鼓励/她/振作/起来。 , **ta**$_{female}$ . *This woman patient was in low spirits, doctors encouraged **her** to cheer up* |
| | 这些女患者情绪低落,医生/鼓励/她/振作/起来。 , **ta**$_{female}$ . *These women patients were in low spirits, doctors encouraged **her** to cheer up* |
| G | 这位女患者情绪低落,医生/鼓励/他/振作/起来。 , **ta**$_{male}$ . *This woman patient was in low spirits, doctors encouraged **him** to cheer up* |
| D | 这些女患者情绪低落,医生/鼓励/他/振作/起来。 , **ta**$_{male}$ . *These women patients were in low spirits, doctors encouraged **him** to cheer up* |

. A B (2006), *Nref* - - 300 - ( . . *The chemist hit the historian while he. . .*; & B , 2006, 2008; B ., 1999; B ., 2003). H - . , , 600 ( & , 1995; B , , & C - , 2004; ., 2008; ., 1997) 400 (L ., 2006; ., 2002), (H ., 2008; ., 2012). 600 , ( ). I , - 600 - . I , 600 - , - , 600 600 - , . I , , - , 600 .

## 2. Experiment 1

### 2.1. Method

#### 2.1.1. Participants

- C (12 , 22 26 24 ) , , C . A - , - - . E C D , .

#### 2.1.2. Design and materials

A 1, 2 * 2 - , . 184 . F , ( ) ( ) ( ) . - ( ) , ( . .,‘这位, / /, ,‘这些, / /, ) . I ( ) 男(/ /, *man*) 女(/ /, *woman*) - ( . . *mother, uncle*) . . ( ) - . ( ) ; ‘ (*he*) ‘ (*she*) . - . , . H - , . , : . . . I , - - . I , , L - . - E ( ) 7- L (1 7 ). A 3, , . I , (*p* < 0.01). I , L - . A 28 E . . A 2, , 91.1% - ; , 94.8% ; , 86.9% , ( 95%). - .

**Table 2**

E 1.

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I , 172

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132 40 -

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( , “ , “ , )

. I , -

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E

L ,

46 . -

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*2.1.3. Procedures*

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( ) 500 ,

500 . -

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- . E

400

400 .

C (J & , 2009; S , L , F , & ,

2006). , , -

, -. A

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15 ,

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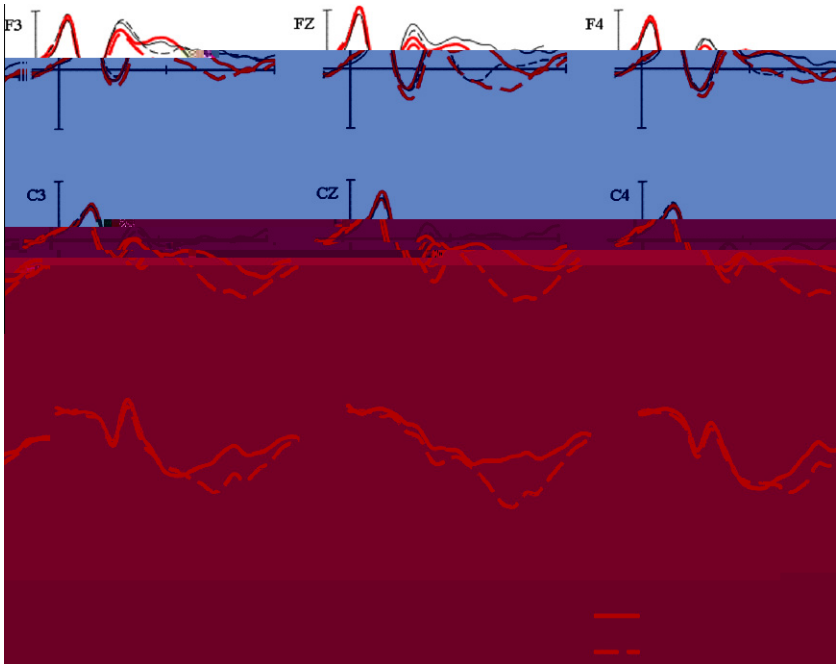


**Fig. 1.** G E - , , E 1.

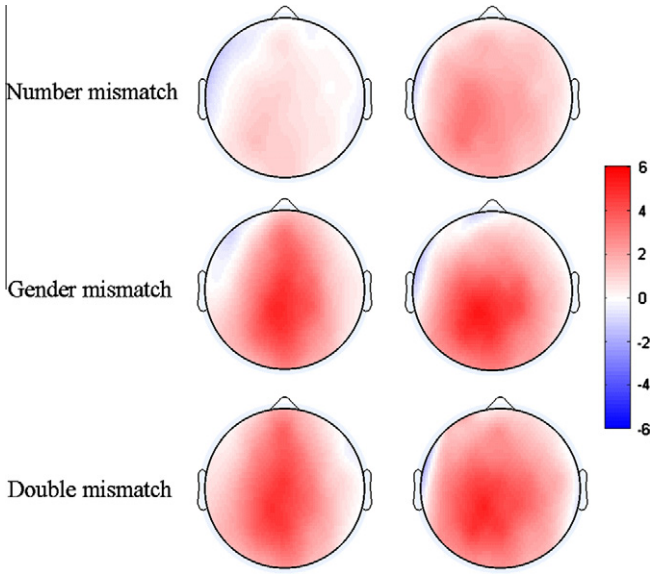


**Fig. 2.**
400 550 ( ) 550 800 ( ) E 1.

, , -
.

*2.2.2.1. ERP responses in the 250–400 ms time window.* -
A A
(0.73 μV), $F(1,23) = 4.63$, $p < 0.05$, -
(0.83 μV) (0.68 μV)
, $F(1,23) = 5.90$, $p < 0.05$, $F(1,23) = 6.76$, $p < 0.05$,
.
, F < 1. F ,
, , -

, - E
: , $F(1,23) = 3.15$, $0.05 < p < 0.1$
$F < 1$ ;
$F(1,23) = 4.04$, $0.05 < p < 0.1$ $F(1,23) = 3.34$,
$0.05 < p < 0.1$ ; , $F(1,23)$
$= 6.99$, $p < 0.05$ $F(1,23) = 3.37$, $0.05 < p < 0.1$
.

*2.2.2.2. ERP responses in the 400–550 ms time window.*
, $F(1,23)$
$= 70.02$, $p < 0.001$, , $F(1,23) = 48.13$,
$p < 0.001$, E -
(3.61 μV
2.23 μV ).
, $F(5,115) = 4.49$,
$p < 0.05$,
, $F(2,46) = 3.89$, $0.05 < p < 0.1$. I F . 1
2 -
. I ,
, $F(1,23) = 1.90$, $p > 0.1$,
, $F < 1$,
E .
, $F(1,23) = 1.45$,
$p > 0.1$ , $F < 1$ .
-
, $F(1,23) = 42.52$,
$p < 0.001$ $F(1,23) = 32.33$, $p < 0.001$
, , $F(1,23)$
$= 50.99$, $p < 0.001$ $F(1,23) = 46.08$, $p < 0.001$
.
, , , $F(1,23) = 2.49$, $p > 0.1$
$F < 1$ . D
, $F(1,23) = 49.64$, $p < 0.001$,
, $F(1,23) = 43.05$, $p < 0.001$, -
(3.24 μV
2.04 μV ) .

*2.2.2.3. ERP responses in the 550–800 ms time window.* , $F(1,23) = 44.44$, $p < 0.001$ $F(1,23) = 41.07$, $p < 0.001$ , , $F(1,23) = 9.92$, $p < 0.005$ $F(1,23) = 18.84$, $p < 0.001$ , 600 - . - , $F(1,23) = 9.18$, $p < 0.01$ $F(1,23) = 8.88$, $p < 0.01$ , - , , $F(5,115) = 5.55$, $p < 0.01$ , , , $F(2,46) = 4.39$, $p < 0.05$ , .

, $F(1,23) = 40.78$, $p < 0.001$ $F(1,23) = 17.37$, $p < 0.005$ , , $F(1,23) = 42.69$, $p < 0.001$ $F(1,23) = 12.58$, $p < 0.005$ , , $F(1,23) = 38.02$, $p < 0.001$ $F(1,23) = 47.36$, $p < 0.001$ . I , F . 1 2, : - , F < 1.

, - , F (1,23) = 10.18, $p < 0.005$, , $F(1,23) = 7.13$, $p < 0.05$.

## 2.3. Discussion

I , 250 400 , - *less* - - , . I 600 , - , - . H , 600 ( . ., 400 550 ) . , , , . - C - . L (2010) , *zij* ( ) , - - (300 400 ) 600 . ( ) - ( ). I , . , / , , , 250 400 - . 3.3.

600 / - ( . ., H ., 2005; L - ., 2008) 400 (D & B , 2001; H ., 2008; L ., 2006; ., 2002). C , - ( ., 2012). I , 600 400 550 550 800 600 550 800 - - . , - . 4. 600 , - . 600 - (J , , & , 2009; , H , K , & K , 2008; ., 2010). J . (2009) C 都 (/*dou*/, *all*) . A - . - . L , - - / ( . ., ), - - . A 600 - (H ., 2005; B ., 2007; & (2009) - ). , , , , (K , C , H , & , 2003; B ., 2007). 600 ( ) . *Nref* , . A B (2006) - ( . . *The chemist hit the historian while he*. . .) - .

## 3. Experiment 2

E 1 - , 600

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H , 600 E 1 - , , .

. I C , - - ( ; L & , 2000). I - E 1 .

A (E , 1997) . I , - *the key to the cabinets.* - ( . ., *were*) - . H , ( . ., *the keys to the cabinet*). , , - ( ), - . I , E - - (K , 2005), - - . , E 1 - . I - “& , - ( . . -

**Table 3**
E E 2.

| C | E |
|---|---|
| C | 这些女患者情绪低落,医生/鼓励/她们/振作/起来。 , **ta-men$_{female}$** *These women patients were in low spirit, doctors encouraged **them**$_{female}$ to cheer up* |
| | 这位女患者情绪低落, 医生/鼓励/她们/振作/起来。 , **ta-men$_{female}$** *This woman patient was in low spirit, doctors encouraged **them**$_{female}$ to cheer up* |
| G | 这些女患者情绪低落,医生/鼓励/他们/振作/起来。 , **ta-men$_{male}$** *These women patients were in low spirit, doctors encouraged **them**$_{male}$ to cheer up* |
| D | 这位女患者情绪低落, 医生/鼓励/他们/振作/起来。 , - *This woman patient was in low spirit, doctors encouraged **them**$_{male}$ to cheer up* |

). - 600 . I C , - ( , . ., “&, /*men*/ ; I , 1994; L , 1999) . , E 2 , , . H . , 3, E - 1. .

### 3.1. Method

#### 3.1.1. Participants

- C (12 , 22 27 24.1 ), E 1, . A - - .

#### 3.1.2. Design and procedures

- - E 1, ( ) ( 3). F (22 , 12% ), ( “&因此/ , “&新以/ ) . F E 1 40 - .

#### 3.1.3. EEG recording and data analysis

A E 1, , , , 20 . E . A 4, , *ps* < 0.02; , *p* > 0.4. , , 96% - . , - , EEG - E 1. A , - E 38.4 - , 39.8 , 42.3 , 43.1 . I E

**Table 4**
E 2.

| | | | E | (%) |
|---|---|---|---|---|
| | | D | | D |
| C | 5.86 | 0.13 | | |
| | 1.96 | 0.27 | 98.9 | 0.6 |
| G | 2.04 | 0.27 | 96.4 | 0.7 |
| D | 1.55 | 0.2 | 97 | 0.7 |

E 1,

.

### 3.2. Results

#### 3.2.1. Behavioral results

87.6% ( D = 1.7%), 91.3% -
( D = 1.4%), 95.6% -
( D = 1.1%), 98.3%
( D = 0.5%). A A
, $F(1,23) = 42.04$, $p < 0.001$,
, $F(1,23) = 7.78$, $p < 0.01$,
, $F(1,23) < 1$. C
, -
(96.9% .
89.5%) (94.8% . 91.6%).

#### 3.2.2. Electrophysiological results

E F . 3.
E 1, -
.
-
F . 4. F -
,
E 1.

*3.2.2.1. ERP responses in the 250–400 ms time window.* -
A A - -
, $F(1,23) = 7.82$,
$p < 0.05$ , $F(1,23) = 9,08$, $p < 0.01$ -
.
, F < 1.
-
,
$F(1,23) = 5.04$, $p < 0.05$,
(−0.72 μ )
. ,

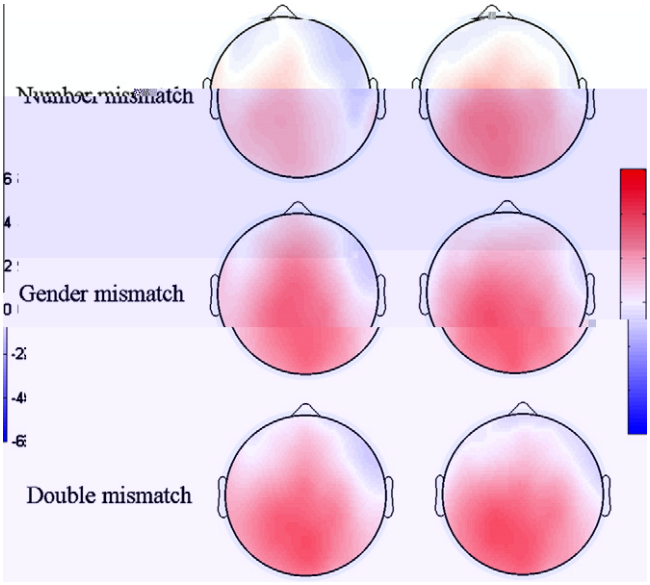


**Fig. 4.**
400 550 (
) 550 800 ( ) E 2.

( )
, E 1, -
( $p > 0.1$).

*3.2.2.2. ERP responses in the 400–550 ms time window.* A E -
1,
, $F(1,23) = 41.93$, $p < 0.001$, ,
$F(1,23) = 1.72$, $p > 0.1$, -
, $F(1,23)=2.61$, $p > 0.1$.
: , $F(1,23)$
$= 32.11$, $p < 0.001$, , $F(1,23) < 1$,
, $F(1,23) < 1$.

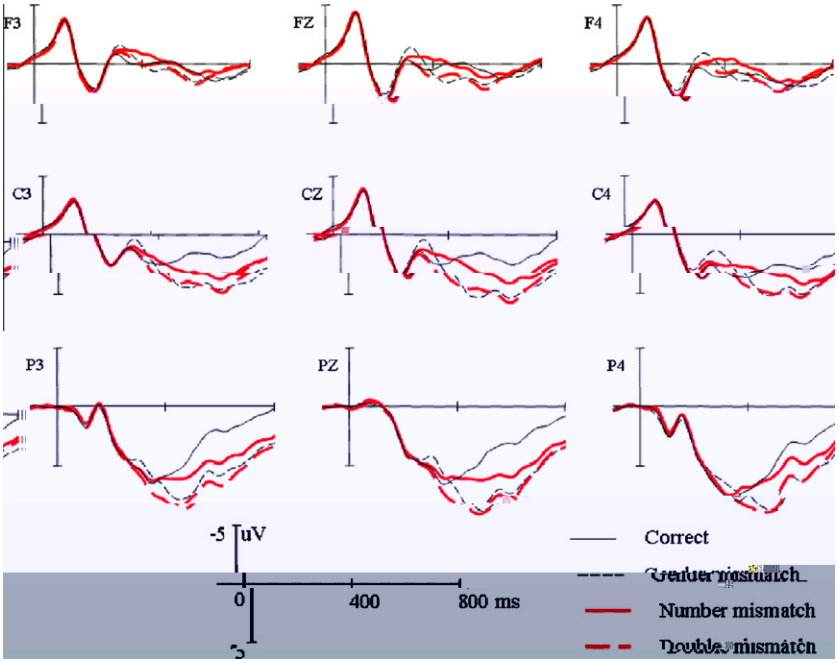


**Fig. 3.** G E - , , E 2.

A , , $F(5,115) = 3.90$, $p < 0.05$, , $F(1,23) = 6.00$, $p < 0.05$ $F(2,46) = 9.35$, $p < 0.005$, . F (0.56 μV) , $F(1,23) = 8.56$, $p < 0.01$.

*3.2.2.3. ERP responses in the 550–800 ms time window.* I - , , , $F(1,23) = 26.22$, $p < 0.001$, , $F(1,23) = 9.81$, $p < 0.001$, - , $F(1,23) = 7.09$, $p < 0.05$. - :

, $F(1,23) = 25.46$, $p < 0.001$; , $F(1,23) = 6.90$, $p < 0.05$;

, $F(1,23) = 5.43$, $p < 0.05$.

( F . 3).

- . F . F , , - , $F(1,23) < 1$. - - . ,

E - (4.07 . 3.27 μV), $F(1,23) = 6.96$, $p < 0.05$, (3.52 . 2.73 μV), $F(1,23) = 9,64$, $p < 0.01$.

*3.2.2.4. Combined analysis of ERP results in Experiments 1 and 2.* G E 1 2 - , E - .

A A 250 400 , $F(1,46) = 3.68$, $p < 0.05$, , $F(1,46) = 6.91$, $p < 0.05$, $F(1,46) = 5.57$, $p < 0.05$, . , F < 1. , , - ( - ) .

, $F(1,46) = 3.09$, $0.05 < p < 0.1$. , $F(1,46) = 4.55$, $p < 0.05$, , $F(1,46) = 5.03$, $p < 0.05$.

E 1 2. F - , - . F , - , $F(2,92) = 6.85$, $p < 0.05$. , $F(5,230) = 1.13$, $p > 0.1$, , $F(2,92) = 1.69$, $p > 0.1$, , - 250 400 . F , - (F < 1), - . F , (F < 1), , $F(5,230) = 3.83$, $0.05 < p < 0.1$, , $F(2,92) = 5.02$, $p < 0.05$. C , - E 1, - - E 2 (F . 1 3).

A A 400 550 , $F(1,46) = 111.84$, $p < 0.001$ , $F(1,46) = 80.01$, $p < 0.001$. - , $F(5,230) = 8.44$, $p < 0.005$, , $F(2,92) = 11.45$, $p < 0.005$.

. - , $F(1,46) = 5.44$, $p < 0.05$, E 1 E 2.

, $F(1,46) = 3.55$, $0.05 < p < 0.1$, - , $F(2,92) = 7.04$, $p < 0.01$. , , -

A A 550 800 , $F(1,46) = 70.37$, $p < 0.001$, , $F(1,46) = 65.99$, $p < 0.001$, - , $F(5,230) = 19.01$, $p < 0.001$, , $F(2,92) = 24.89$, $p < 0.01$. - , $F(1,46) = 16.26$, $p < 0.001$, , $F(1,46) = 14.01$, $p < 0.005$, 600 - . G , $F(1,46) < 1$ , $F(1,46) = 1.43$, $p > 0.1$, , , 600 .

, $F(1,46) = 19.33$, $p < 0.001$, , $F(1,46) = 24.88$, $p < 0.001$.

, $F(2,92) = 9.22$, $p < 0.01$, 600 . , - , $F(5,230) = 5.86$, $p < 0.005$, - , , $F(2,92) = 9.39$, $p < 0.005$, 600 E 2 E 1.

- , - E 1, 250 400 . 400- . (2002) L . (2006). . (2002) 600 - , 400- - ( . ., B ,'& *little* '), ( . ., B ,'& '), - 400- G "& . , L . (2006) 400- D - : - (280 420 ) . I - E 2 ( . ., ſ], / /) . A E 1 E 2 250 400 ( , , & L , 1992; , A , & L , 2002). E 1 - ((/*ta*/) E 2 - (/*tamen*/). C - E , $F(1,46) = 6.02$, $p < 0.05$ - $F(1,46) = 7.67$, $p < 0.01$ , E 2 - E 1.

(*ta*) (*tamen*) C . A (K & K , 1998) - 200, - . , , E 1 2 ( 4000 ). 600 - , E 1, ( . ., "], / /, ). - , , - - (A , E , B - , & , 2000; E , 1980; G & , 1985; G , , E , & C , 1995), ( , , E , 1997; K , 2005). A , 600 , E 2, E 1, - E 1. E , - . I , E 2 "& , 600 - , . 600 - 600 (B - - & , 2008; K , 2007), - ( ) - . C - ( 4).

## 4. General discussion

I , - , - , E / - . (E 1) (E 2) 600 - , E . A 600 (E 1) (E 1 2) . - , , 600 , . I - .

### 4.1. The cognitive salience of semantic gender and number agreement processing

600 - . (E 1) 600 ( E 1 2) . I , F . (1999) . I , H (2010) . , F . (1999), - . H , - C . - - . - . F , ( . . ), / 600 E - ( . (2011) ); , - ( . ., - ), 400 600 E . - / (H ., 2008;

., 2005; ., 2012). I
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(K .,
2012). ( . .,
- . - ;
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C ,
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600
E (
& B , 2008)
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E
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(E 1)
(E 2).
( 600) -
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( 600
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. F , /
(C , , & C
, 2004),
(L , 1993),
. D
(A , 2008; F & L , 1993; , 1993).
B - 4- 5- -
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(A , B - , &
2007; , 1983; / , 1981).
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(A -F , 2009; B , 1998). C
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C
( ., 2006; & ,
, 2008; , , & B , 2010).
( . ., )
( . ., -
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### 4.2. Implications to the two-stage theory of pronoun resolution

A , -
(G & , 2000) E
(C , 2008):
LA
400 600. A
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F /
, LA
. H , E -
250 400 . I
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. F
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600 -
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600
( ., 2002),
-
. 600 -
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,
(G , , K -
, & , 2010; K ., 2000; ., 2005). C -
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600
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( )
- . H ,
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, ( ) -
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600
. 600
-
-
( B & C , 2005).

## 5. Conclusion

B -
, E
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600 . -

(C )
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## Acknowledgments

F C (30970889, 3011097) -
C (2010CB833904) ,
C - F
(20100480150, 2012 50005) J ,
F H E I
J (12KJB180007) ,
F C (31100814) C ,
A D J H
E I F L
C , . -
J . D . H A.
B , . -A , D .

. E
D . , 104@ . . .

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D , A., & D , . (2009). C
: E
H . *Journal of Memory and Language, 60*, 112 143.
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