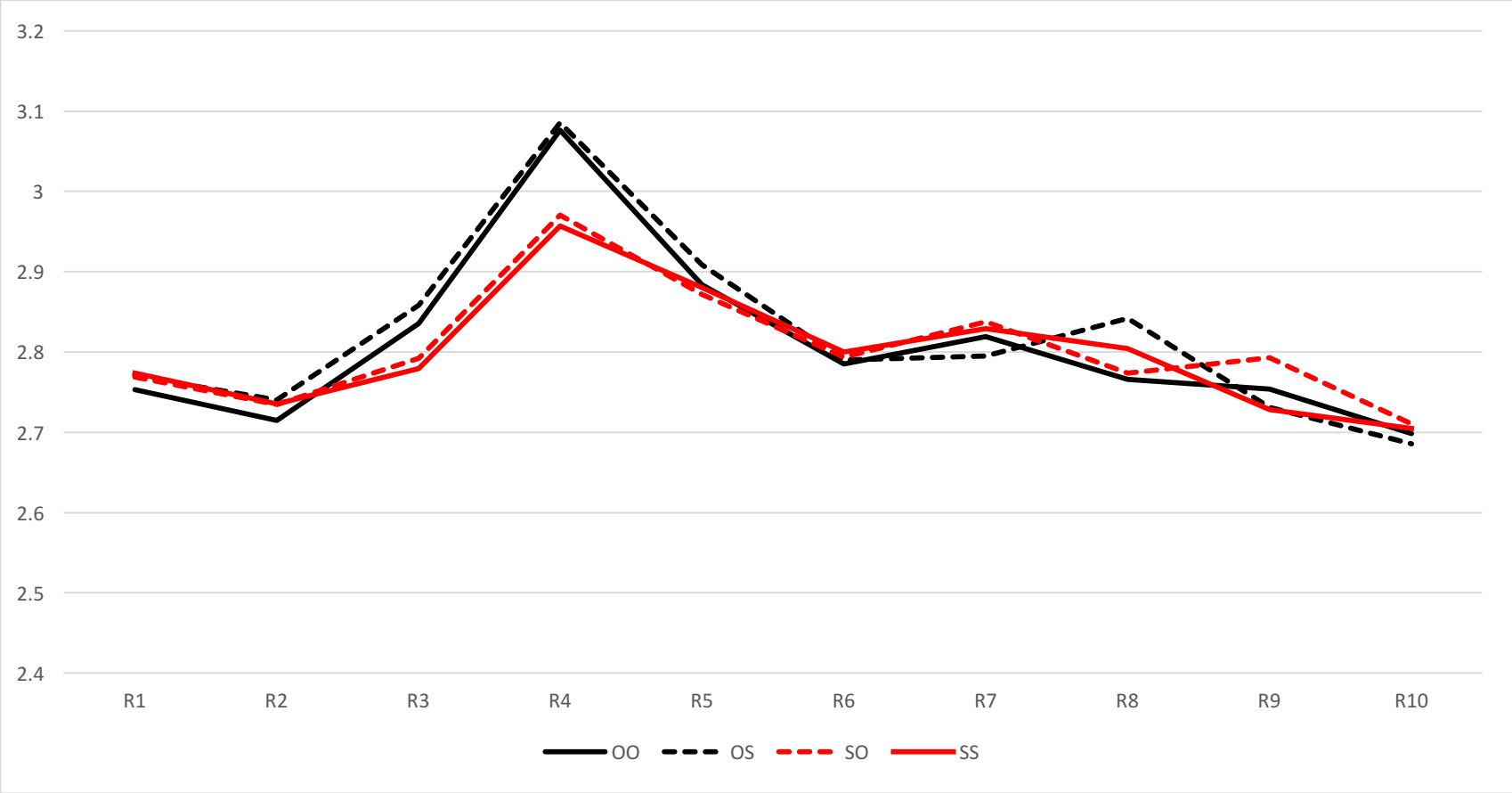
ENGLISH

Type	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10
SS	The horse	that	***e*** kicked	the wolf	on Tuesday	that	***e*** patted	the lion	just now	went home.
OS	The horse	that	the wolf	kicked ***e***	on Tuesday	that	***e*** patted	the lion	just now	went home.
SO	The horse	that	***e*** kicked	the wolf	on Tuesday	that	the lion	patted ***e***	just now	went home.
OO	The horse	that	the wolf	kicked ***e***	on Tuesday	that	the lion	patted ***e***	just now	went home.



- All stats are done with lmer4.0 package in R.
  Model: m_RegionX = lmer (log_RX ~ log_R4*RC1fac * RC2fac + (1*log_R4*dprimeT|Participant) + (1*log_R4*dprimeT|Item), dataset)
- In RC 1, there is a robust **SRC advantage**.
- In RC 2: (notation: *>> means significantly faster; *<< means significantly slower)

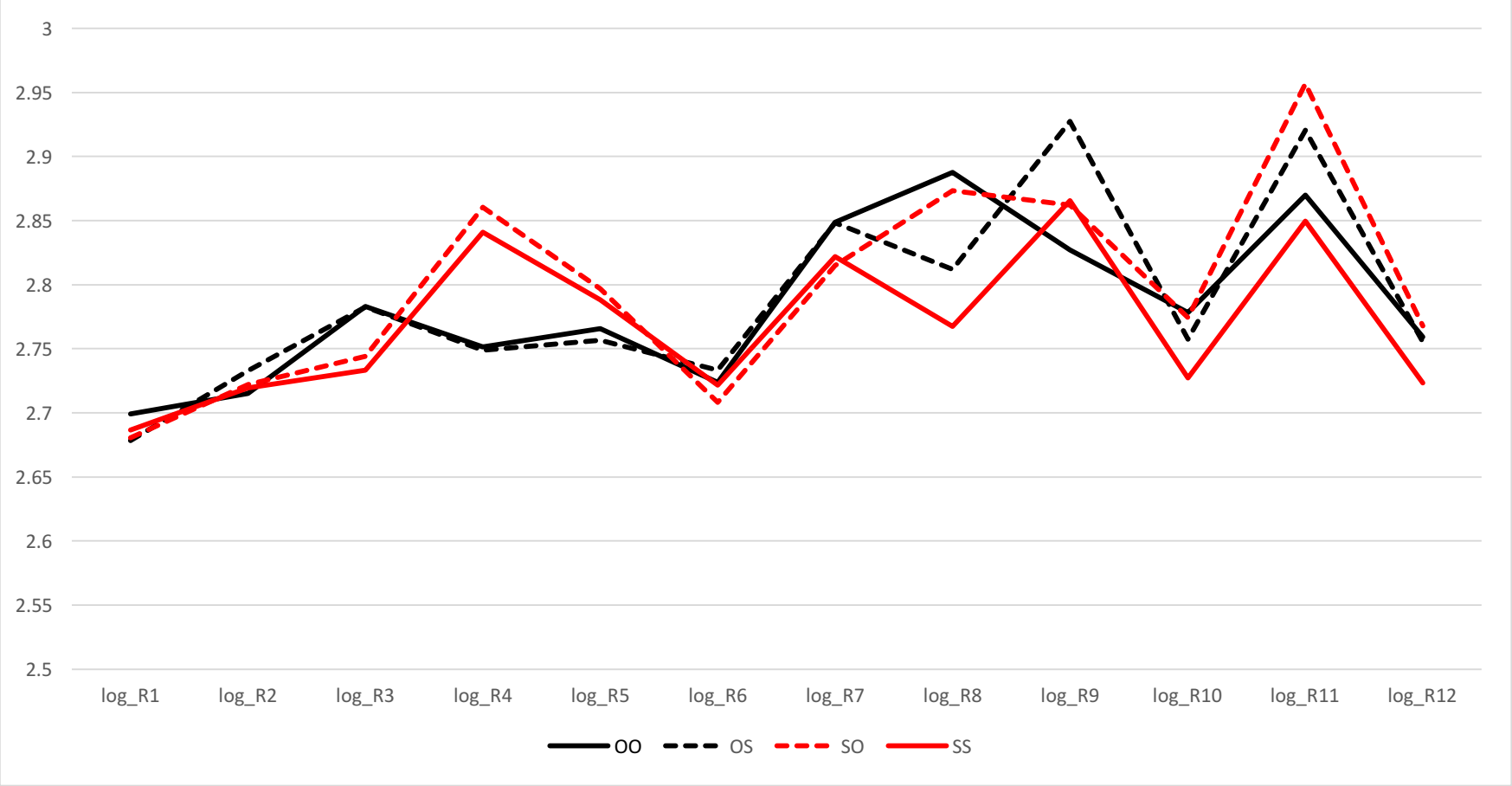
	Main Effects		Interactions		Rank main effects	Parallelism as a factor
R3	RC1S	t = -5.155, p < .001			S *>> O	
R4	RC1S	t = -8.253, p < .001			S *>> O	
R7	RC1S	t = 2.228, p < .05			OS, OO *>> SO, SS	Not sig.
R8	RC2S	t = 4.831, p < .001	RC1S:RC2S t = -2.048, p < .05	OO=SO?>>SS?>>OS	SO, OO *>> OS, SS	t = -2.048, p < .05
R9	RC2S	t = -4.489, p < .001	RC1S:RC2S t = -2.143, p < .05	SS=OS?>>OO?>>SO	SO, OO *<< OS, SS	t = -2.143, p < .05
R10	RC1S	t = 2.164, p < .05			OS, OO *>> SO, SS	Not sig.
R78	RC2S	t = 2.584, p < .05				

- Detailed comparisons:

Regions	Rankings	Significance	Possible explanations
R7	**OS** *>> SS	Not sig. (Since RC2S is not sig. as a main effect)	Processing O in RC1 was longer, which encoded the structure better, so the S after O (OS) is processed significantly faster than the S after S (SS).
	OO, SO		
R8	OS *<< **SS**	* t = 4.831, S *>> O	Parallelism. R8 is the region to show effects due to spillover for S as RC2.
	OO, SO		
R9	OS, SS	* t = -4.489, S *<< O	Parallelism. R9 is the region to show effects due to spillover for O as RC2.
	OO *>> SO		
R10	OS, SS	Not sig. (Since RC2S is not sig. as a main fr)	
	OO, SO		

CHINESE

Type	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12
SS	Dem	on Tuesday	***e*** kicked	the wolf	many times	de	just now	***e*** patted	the lion	de	horse	went home.
OS	Dem	on Tuesday	the wolf	***e*** kicked	many times	de	just now	***e*** patted	the lion	de	horse	went home.
SO	Dem	on Tuesday	***e*** kicked	the wolf	many times	de	just now	the lion	patted ***e***	de	horse	went home.
OO	Dem	on Tuesday	the wolf	***e*** kicked	many times	de	just now	the lion	patted ***e***	de	horse	went home.



- Same stats as the English dataset.
- In RC 1, there is a robust **ORC advantage**. This is to the opposite of English.
- In RC 2: (notation: *>> means significantly faster; *<< means significantly slower)

	Main Effects		Interactions		Rank main effects	Parallelism as a factor
R3	RC1S	t = -3.607, p < .001			S *>> O	
R4	RC1S	t = 8.961, p < .001			O *>> S	
R5	RC1S	t = 2.863, p < .01			O *>> S	
R7	RC1S	t = -2.289, p < .05			SS, SO *>> OS, OO	
R8	RC1S	t = -2.557, p < .05			SS, SO *>> OS, OO	
	RC2S	t = -7.876, p < .001			SS, OS *>> SO, OO	
R9	RC2S	t = 4.397, p < .001	RC1S:RC2S t = -4.103, p < .001	OO ?>> SO = SS ?>> OS	SS, OS *<< SO, OO	t = -4.103, p < .001
R10	RC2S	t = -3.134, p < .01			SS, OS *>> SO, OO	
R11	Almost RC2S	t = 1.856, p = 0.0675	RC1S:RC2S t = -5.121, p < .001	SS?>>OO?>>OS?>>SO	SS, OS *<< SO, OO	t = -5.121, p < .001
R12	RC2S	t = -2.836, p < .01	RC1S:RC2S t = -2.361, p < .05	SS?>>OO=OS?>>SO	SS, OS *>> SO, OO	t = -2.361, p < .05
R89	RC1S	t = -2.315, p < .05	RC1S:RC2S t = -3.815, p < .001		SS, SO *>> OS, OO	t = -3.815, p < .001
	RC2S	t = -2.327, p < .05			SS, OS *>> SO, OO	
R8910	RC1S	t = -2.595, p < .01	RC1S:RC2S t = -4.227, p < .001		SS, SO *>> OS, OO	t = -4.227, p < .001
	RC2S	t = -3.180, p < .01			SS, OS *>> SO, OO	

Regions	Rankings	Significance	Possible explanations
R7	OS, SS	Not sig.	t = -1.971, p < .05
	OO *<< **SO**		
R8	OS *<< **SS**	*	1. Processing S in RC1 was longer, which encoded the structure better, so the S after S (SS) is processed significantly faster than the S after O (OS). 2. Parallelism
	OO, SO		
R9	OS *<< **SS**	*	Parallelism is stronger than structure encoding.
	OO *>> SO		
R10	OS *<< **SS**	*	
	OO, SO		
R11	OS *<< **SS**	Almost *	Parallelism
	OO, SO		
R12	OS *<< **SS**	*	Parallelism
	OO, SO		