

Seminarplan

Elektrophysiologie der Sprache (5220162)

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Montags 12:00 – 14:00 Uhr

Beginn 25.10.2010

Raum 3.102 Dorotheenstraße 24 (DOR 24)

Termin	Datum	Thema	Referenten
1.	25.10.2010	Organisatorisches; Einführung in ereigniskorrelierte Hirnpotentiale	beim Graben
2.	01.11.2010	a) Aaltonen <i>et al.</i> (1993) b) Dehaene-Lambertz (1997)	
3.	08.11.2010	a) Dehaene-Lambertz & Baillet (1998) b) Turenout <i>et al.</i> (1997)	
4.	15.11.2010	a) Kutas & Hillyard (1980) b) Kutas & Hillyard (1984)	
5.	22.11.2010	a) Rugg (1984) b) Pulvermüller <i>et al.</i> (1995)	
6.	29.11.2010	a) Dambacher <i>et al.</i> (2006) b) Grunwald <i>et al.</i> (1999)	
7.	06.12.2010	a) Frisch & Schlesewsky (2001) b) Roehm <i>et al.</i> (2004)	
–	13.12.2010	<i>ZAS Workshop</i>	
–	<i>Ferien</i>	Frohe Weihnachten!	
8.	03.01.2011	a) Neville <i>et al.</i> (1991) b) Osterhout & Holcomb (1992)	
9.	10.01.2011	a) Hahne & Friederici (1999) b) Osterhout <i>et al.</i> (1994)	
10.	17.01.2011	a) Kluender & Kutas (1993a) b) Kluender & Kutas (1993b)	
11.	24.01.2011	a) Kaan <i>et al.</i> (2000) b) Frisch <i>et al.</i> (2002)	
12.	31.01.2011	a) Noveck & Posada (2003) b) Nieuwland & Kuperberg (2008)	
13.	07.02.2011	a) Nieuwland <i>et al.</i> (2006) b) Hald <i>et al.</i> (2007)	
14.	14.02.2011	a) Pynte <i>et al.</i> (1996) b) Lai <i>et al.</i> (2009)	

Scheinvergabe:

1. Gute Vorbereitung (Texte lesen!).
2. Referat und Teilnahme an der Seminardiskussion.
3. Schriftliche Hausarbeit.

Literatur

Einführung:

Garnsey, S. M. Event-related brain potentials in the study of language: An introduction. *Language and Cognitive Processes*, **1993**, 8, 337 – 356.

Kutas, M. & van Petten, C. K. Psycholinguistics electrified. In: Gernsbacher, M. A. (Ed.), *Handbook of Psycholinguistics*, Academic Press, **1994**, 83 – 133.

Osterhout, L.; McLaughlin, J. & Berwick, M. Event-related brain potentials and human language. *Trends in Cognitive Science*, **1997**, 1, 203 – 209.

Referate:

1. Einführung in EKP-Physiologie und Technik.

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2b) Dehaene-Lambertz, G. Electrophysiological correlates of categorical phoneme perception in adults. *NeuroReport*, **1997**, 8, 919 – 924.

3a) Dehaene-Lambertz, G. & Baillet, S. A phonological representation in the infant brain. *NeuroReport*, **1998**, 9, 1885 – 1888.

3b) Turenout, M. v.; Hagoort, P. & Brown, C. M. Electrophysiological evidence on the time course of semantic and phonological processes in speech production. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, **1997**, 23, 787 – 806.

4a) Kutas, M. & Hillyard, S. A. Reading between the lines: Event-related brain potentials during natural sentence processing. *Brain and Language*, **1980**, 11, 354 – 373.

4b) Kutas, M. & Hillyard, S. A. Brain potentials during reading reflect word expectancy and semantic association. *Nature*, **1984**, 307, 161 – 163.

5a) Rugg, M. D. Event-related potentials and the phonological processing of words and non-words. *Neuropsychologia*, **1984**, 22, 435 – 443.

- 5b) Pulvermüller, F.; Lutzenberger, W. & Birbaumer, N. Electrocortical distinction of vocabulary types. *Electroencephalography and Clinical Neurophysiology*, **1995**, *94*, 357 – 370.
- 6a) Dambacher, M.; Kliegl, R.; Hofmann, M. & Jacobs, A. M. Frequency and predictability effects on event-related potentials during reading. *Brain Research*, **2006**, *1084*, 89 – 103.
- 6b) Grunwald, T.; Beck, H.; Lehnertz, K.; Blümke, I.; Pezer, N.; Kurthen, M.; Fernández, G.; v. Roost, D.; Heinze, H. J.; Kutas, M. & Elger, C. E. Evidence relating human verbal memory to hippocampal *N*-methyl-*D*-aspartate receptors. *Proceedings of the National Academy of Sciences of the U.S.A.*, **1999**, *96*, 12085 – 12089.
- 7a) Frisch, S. & Schlesewsky, M. The N400 reflects problems of thematic hierarchizing. *NeuroReport*, **2001**, *12*, 3391 – 3394.
- 7b) Roehm, D.; Schlesewsky, M.; Bornkessel, I.; Frisch, S. & Haider, H. Fractionating language comprehension via frequency characteristics of the human EEG. *NeuroReport*, **2004**, *15*, 409 – 412.
- 8a) Neville, H.; Nicol, J. L.; Barss, A.; Forster, K. I. & Garrett, M. F. Syntactically based sentence processing classes: evidence from event-related brain potentials. *Journal of Cognitive Neuroscience*, **1991**, *3*, 151 – 165.
- 8b) Osterhout, L. & Holcomb, P. J. Event-related brain potentials elicited by syntactic anomaly. *Journal of Memory and Language*, **1992**, *31*, 785 – 806.
- 9a) Hahne, A. & Friederici, A. D. Electrophysiological evidence for two steps in syntactic analysis: Early automatic and late controlled processes. *Journal of Cognitive Neuroscience*, **1999**, *11*, 194 – 205.
- 9b) Osterhout, L.; Holcomb, P. J. & Swinney, D. A. Brain potentials elicited by garden-path sentences: Evidence of the application of verb information during parsing. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, **1994**, *20*, 786 – 803.
- 10a) Kluender, R. & Kutas, M. Bridging the gap: Evidence from ERPs on the processing of unbounded dependencies. *Journal of Cognitive Neuroscience*, **1993a**, *5*, 196 – 214.
- 10b) Kluender, R. & Kutas, M. Subjacency as a processing phenomenon. *Language and Cognitive Processes*, **1993b**, *8*, 573 – 633.
- 11a) Kaan, E.; Harris, A.; Gibson, E. & Holcomb, P. The P600 as an index of syntactic integration difficulty. *Language and Cognitive Processes*, **2000**, *15*, 159 – 201.
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- 12a) Noveck, I. A. & Posada, A. Characterizing the time course of an implicature: An evoked potentials study. *Brain and Language*, **2003**, *85*, 203 – 210.

12b) Nieuwland, M. S. & Kuperberg, G. R. When the truth is not too hard to handle: An event-related potential study on the pragmatics of negation. *Psychological Science*, **2008**, *19*, 1213 – 1218.

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14a) Pynte, J.; Besson, M.; Robichon, F.-H. & Poli, J. The time-course of metaphor comprehension: An event-related potential study. *Brain and Language*, **1996**, *55*, 293 – 316.

14b) Lai, V. T.; Curran, T. & Menn, L. Comprehending conventional and novel metaphors: An ERP study. *Brain Research*, **2009**, *1284*, 145 – 155.

Hintergrund:

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3. Dehaene-Lambertz, G. & Pena, M. Electrophysiological evidence for automatic phonetic processing in neonates. *NeuroReport*, **2001**, 12, 3155 – 3158.
4. Kutas, M. & Hillyard, S. A. Reading senseless sentences: Brain potentials reflect semantic incongruity. *Science*, **1980**, 207, 203 – 205; Kutas, M. & Hillyard, S. A. Event-related brain potentials to semantically inappropriate and surprisingly large words. *Biological Psychology*, **1980**, 11, 99 – 116.
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Ulks:

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2. Frisch, S. & beim Graben, P. The electrophysiology of vegetable language: A case study. *Journal of Irreproducible Results*, **2007**, *50*, 25 – 27.