

# **SYMPOSIUM**

## **Grounding semantics in sensorimotor/experiential systems**

**MODELACT Conference**

**Rome 2016, June 6-7**

# KEYNOTE TALK

**Shirley-Ann Rueschemeyer**(University of York)

“Sensorimotor semantics: How perceptual experience relates to on-line language processing.”

# CONTRIBUTED TALKS

**Christel Bidet-Ildes, Manuel Gimenes, Lucette Toussaint, Arnaud Badets** (University of Poitiers)

“Motor simulation induced by the semantic context modulates the relationship between action verbs and the perception of biological human movements.”

**Marietta Sionti, Dirk Koester, Thomas Schack** (Bielefeld University)

“Correlation between manner/path languages and sensorimotor tasks.”

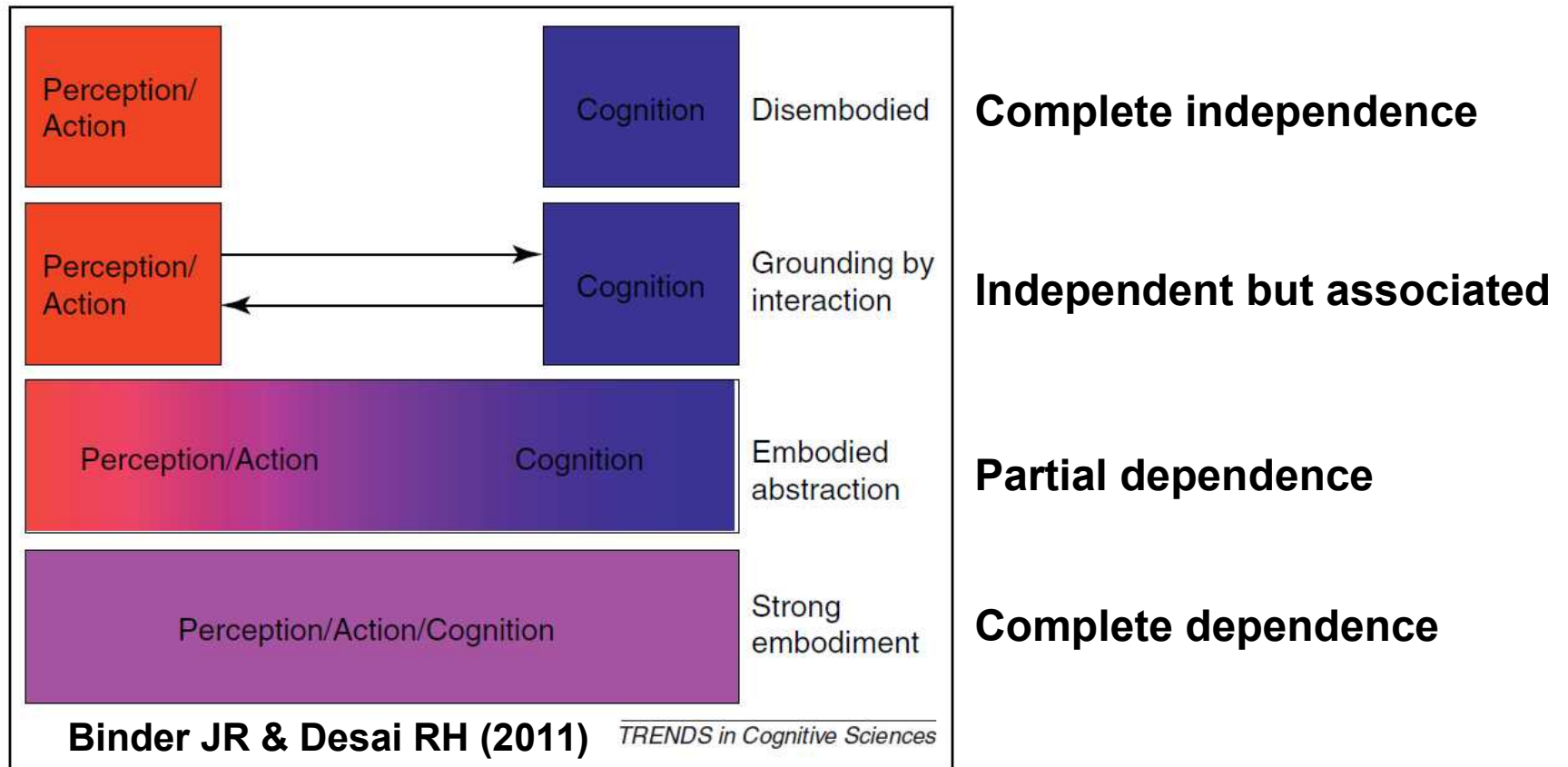
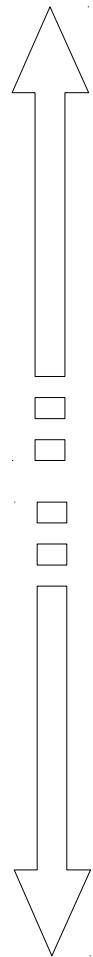
**Katharina Wendler** (Bielefeld University)

“Role Versus Action Mismatches In Situated Language Comprehension: A Blank Screen Study.”

# GENERAL DISCUSSION

# CONCEPTUAL KNOWLEDGE

Represented by amodal and arbitrary symbols



Grounded in content-specific distributed representations

# FLEXIBLY GROUNDED

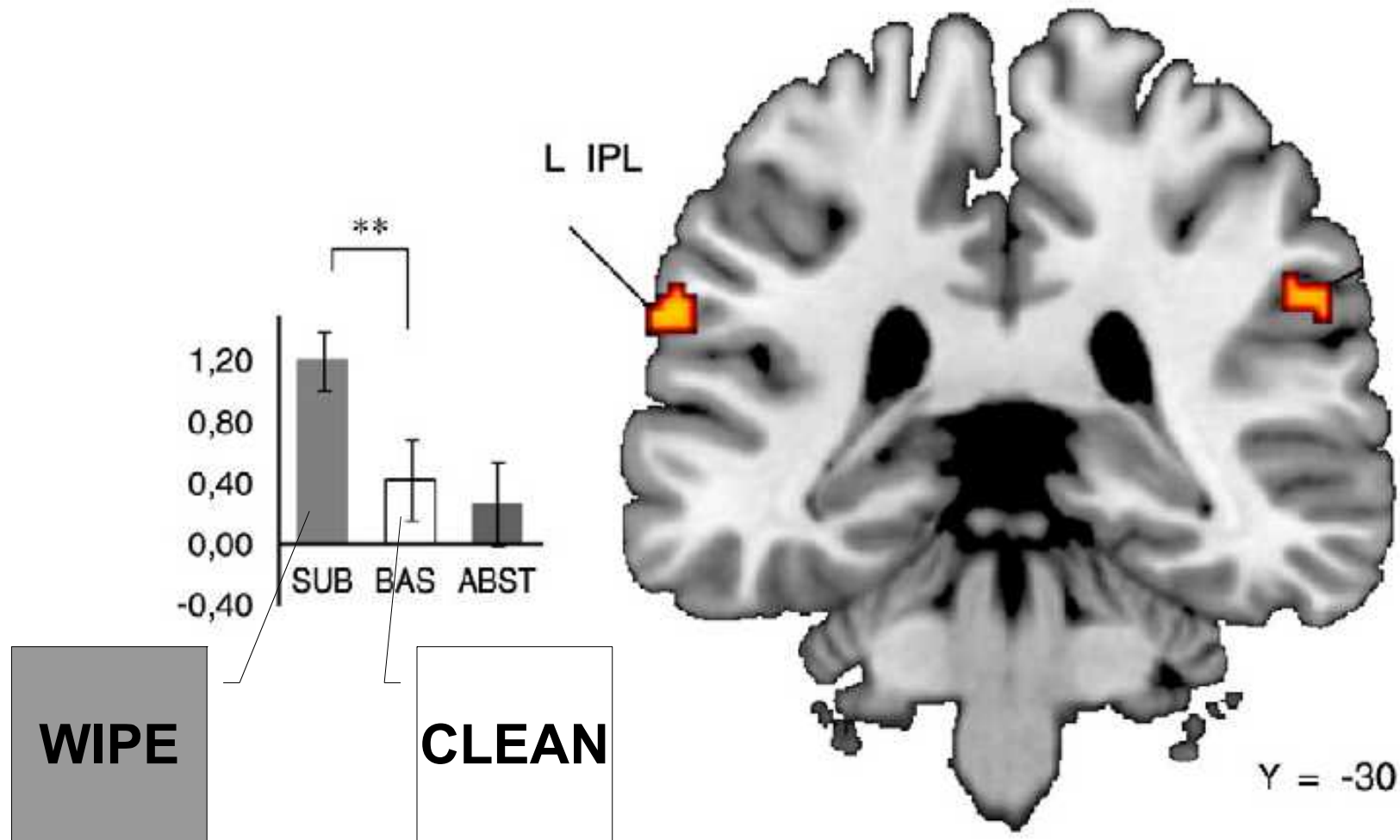
The reactivation of the neural nodes contributing to distributed semantic networks, including primary and integrative cortices, varies in a **flexible** manner, depending on the type of concept retrieval required by the task, by the focus on specific sensory-motor features, and by the linguistic context in which it occurs.

(Hoenig et al., 2008; van Dam et al., 2012; Rueschemeyer et al., 2014; Ghio and Tettamanti, 2015).

# How specifically are action verbs represented in the neural motor system: An fMRI study

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“Sensorimotor semantics: How perceptual experience relates to on-line language processing.”