

Sentence processing and its impact over the mu wave: overview of two experiments

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In this talk I will present last two experiments I did as part of my PhD project. I will first give an overview of the EEG/ERD analysis, its previous development within the motor research, and its usability on language research to find evidence that support the Motor Theory of Language. Then I will present two of the experiments I performed focussed on syntax processing and its influence over the mu wave. First I will show an experiment I carried out to find out whether processing sentences of 1, 2 and 3 arguments could modulate the mu ERD in a similar way motor processing does. Based on the results of this first experiment, I will then present the follow-up experiment I did with the objective of checking whether processing of sentences with unergative and unaccusative verbs could show different mu ERD patterns.