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**Central neuronal motor behaviour preceding the short badminton backhand serve:
A cross-educational approach on skill-related movement technique performance**

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Highlights:

- Use of state-of-the-art mobile EEG technology in a real sport-specific environment
- Central neuronal motor behaviour of a complex real sport-specific movement technique
- Expert badminton players require higher readiness potential peaks to perform more precise serves
- Long lasting practice modulates central neuronal preparatory processes

Abstract

Training in a particular sport not only leads to a higher accuracy in movement, it also creates neuronal modulations in different areas of the brain. Electroencephalography (EEG) has been on the rise to detect these neuronal modulations to address applied research approaches in sports-specific setups with focus on movement-

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