

**Independent Component Analysis denoising impact on the  
Analysis of Visual P300 Event-related potentials with Autism Spectrum Disorder Subjects**

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## **Supplementary Material 1**

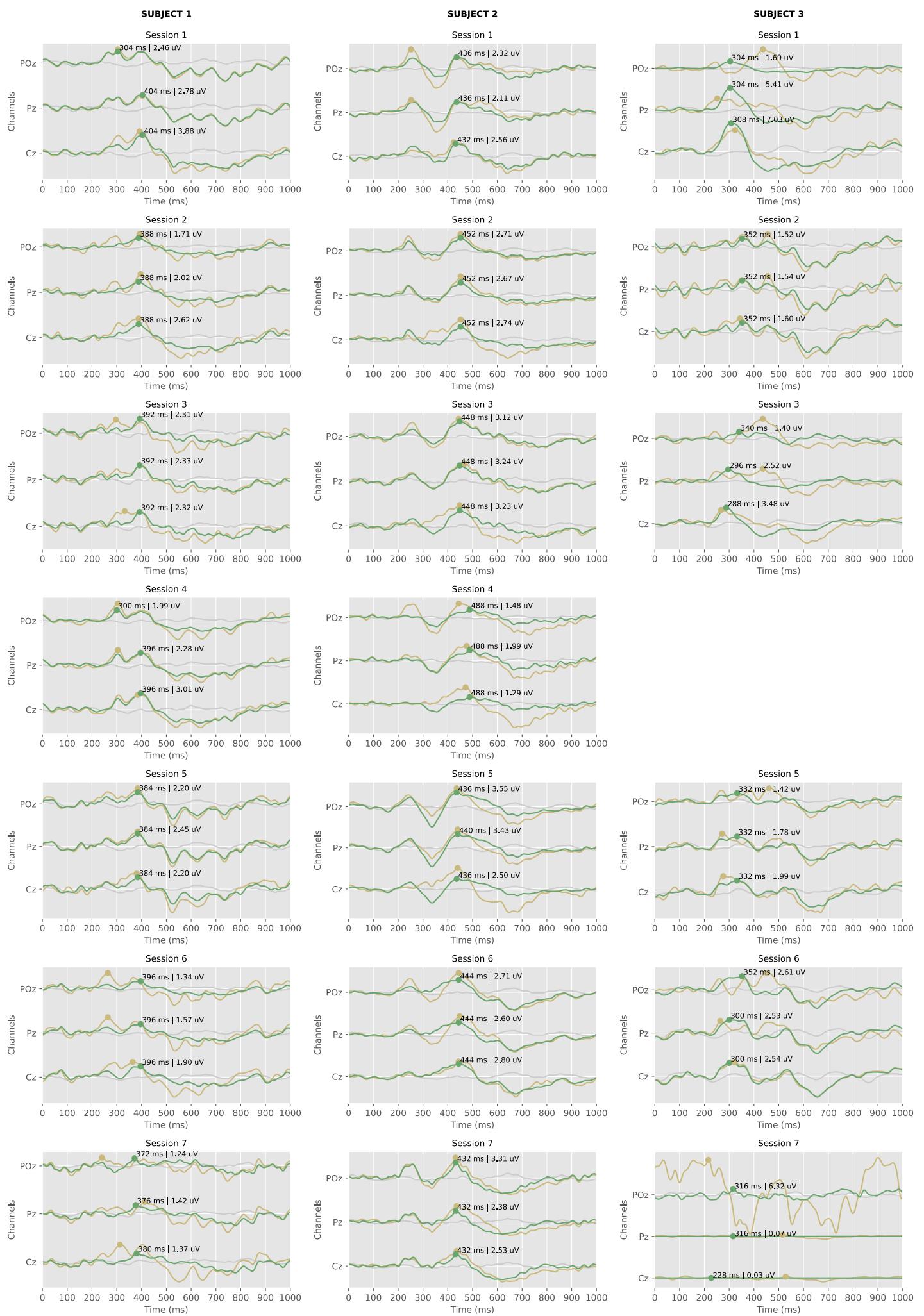
This document shows the average ERP timeseries for each subject-session pair. Each plot presents three curves: one of the averaged *non-P300 epochs* (object flashed was not the target one) before ICA analysis; one of the averaged non-P300 epochs (object flashed was not the target one); one of the averaged *P300 epochs* (object flashed was the target one) before any independent component (IC) removal; and one of the averaged *P300 epochs* after ICs removal, according to the followed strategy in each case.

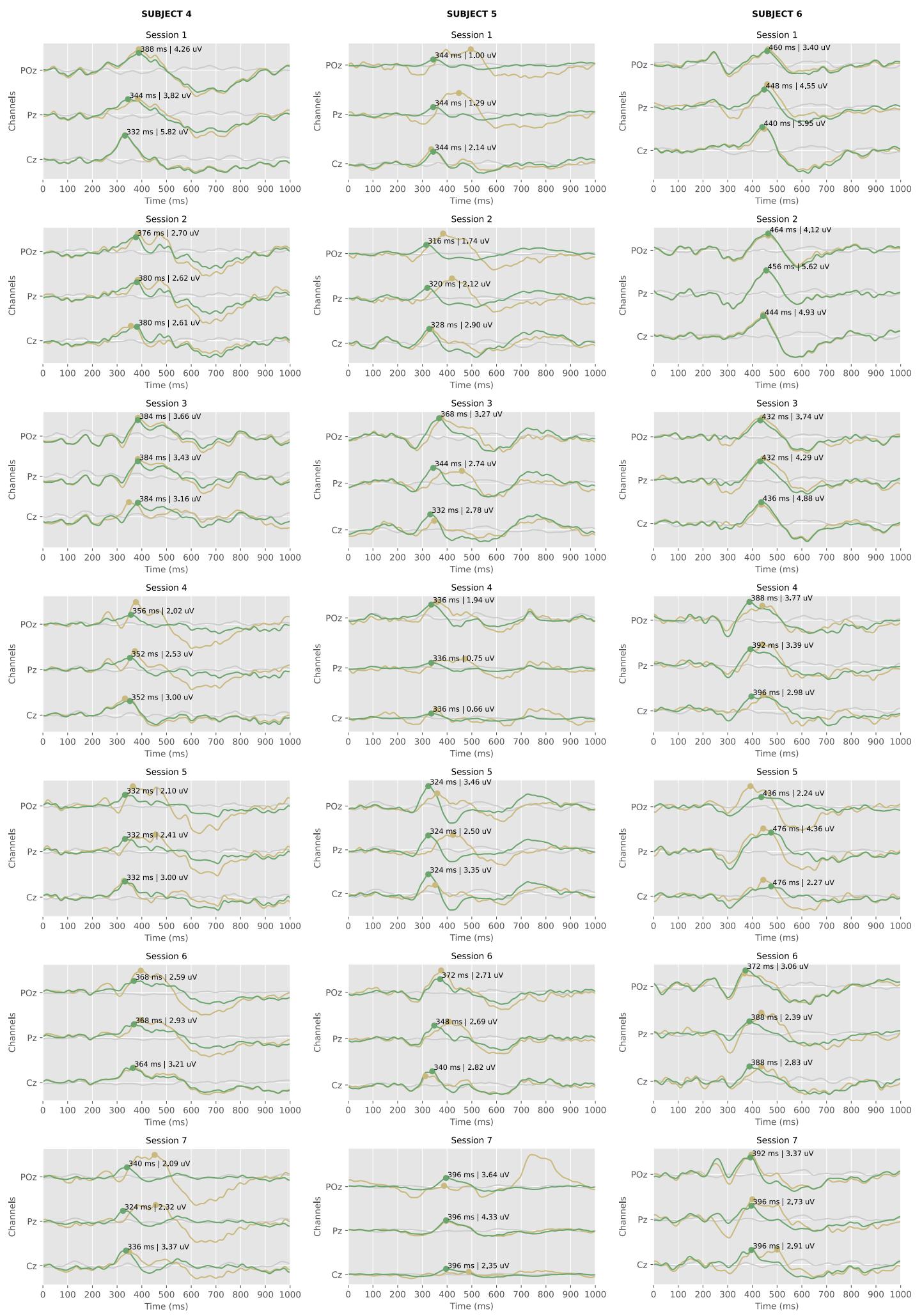
### **Methodological note**

Results from Subject 3, Session 4 were removed due to bad ICA decomposition.

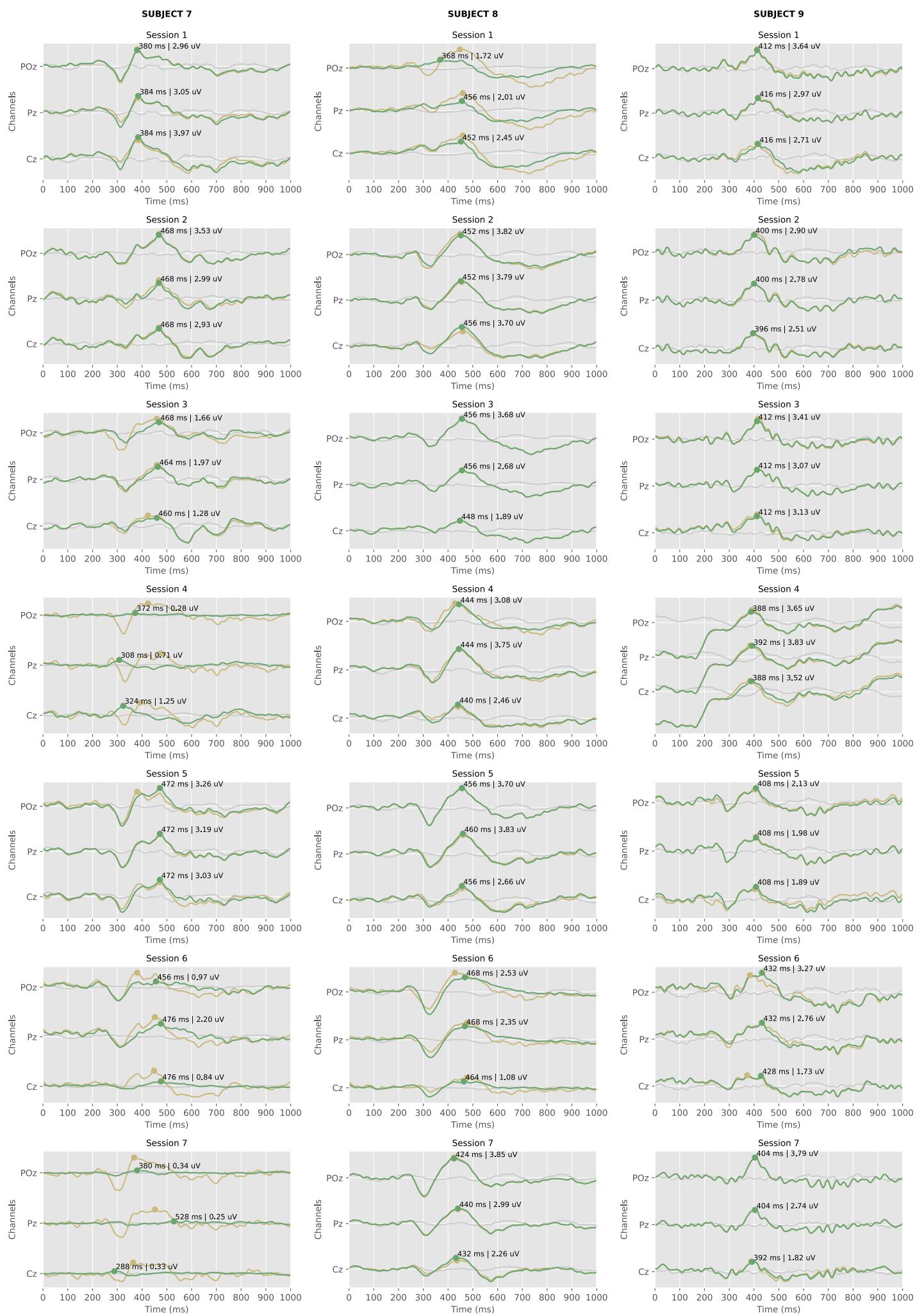
### **Resources access**

Full PDF images can be obtained here: <https://github.com/jomy-kk/AutICA/results>.

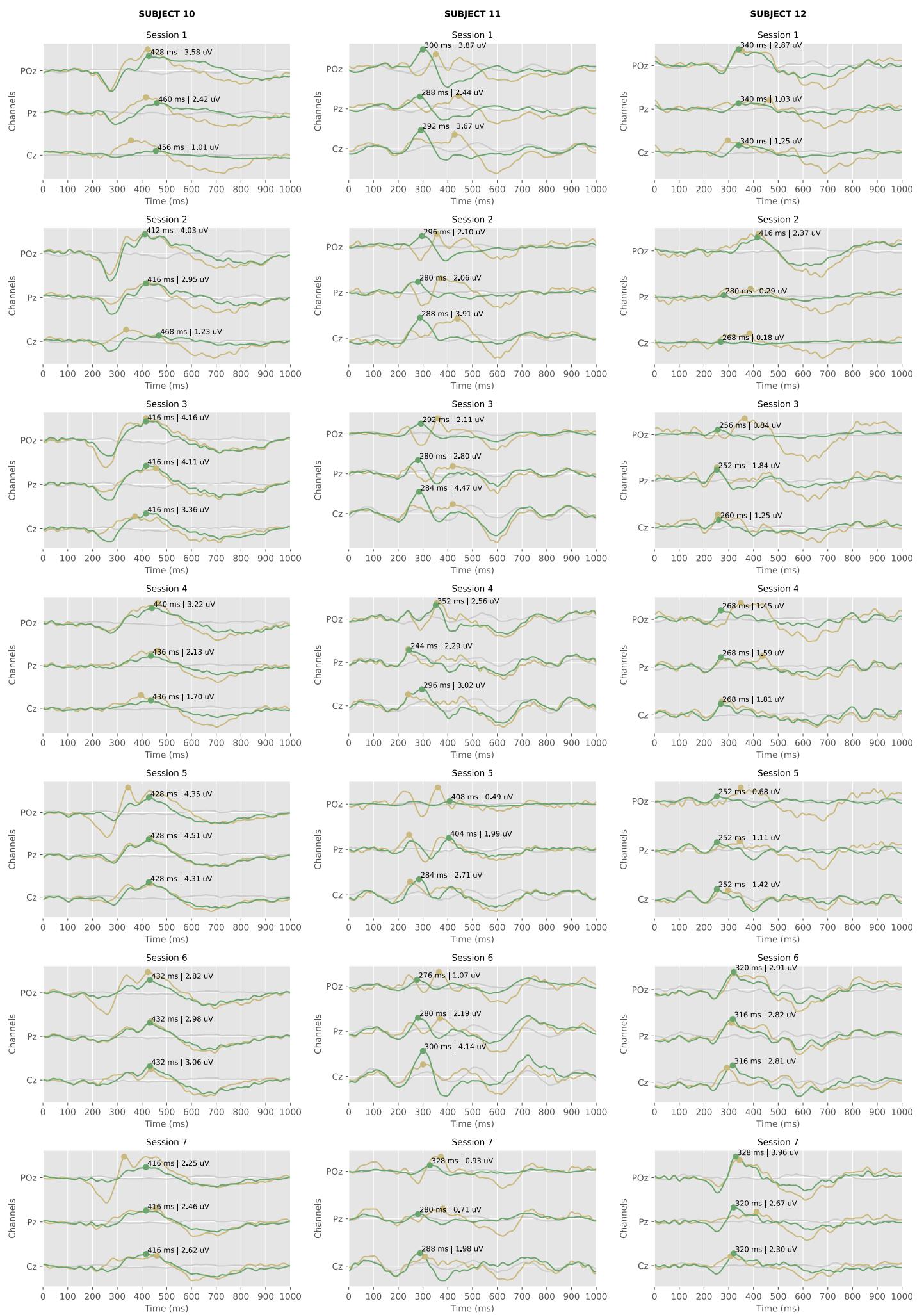




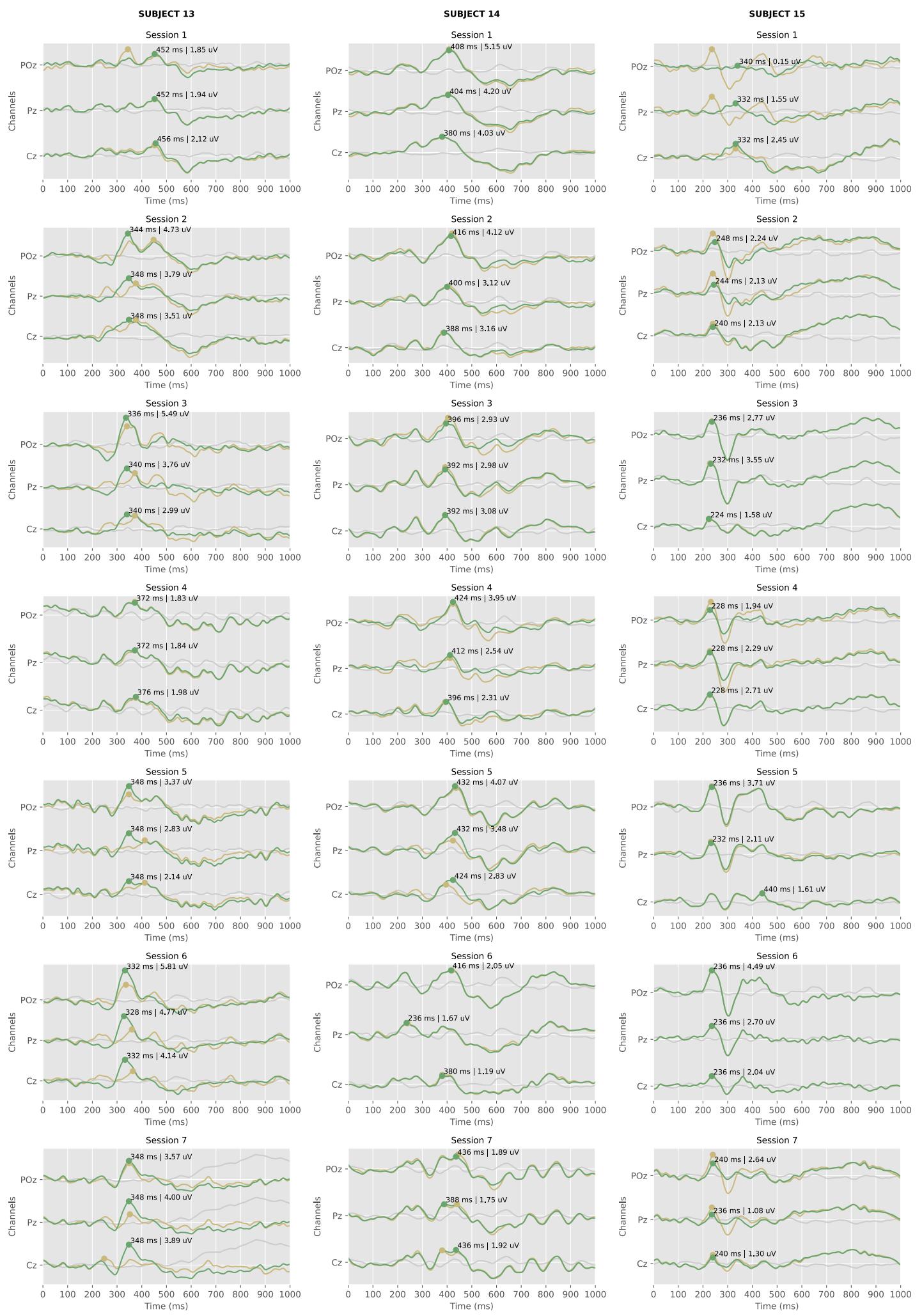
■ Not-P300 epochs ■ P300 epochs before ICs pruning ■ P300 epochs after ICs pruning  
Points text-marked with "Amplitude | Latency" refer to P300 detected peak in the green signals between [200, 550] ms.



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