

Brain-Computer Interface

Motor Imagery Analysis

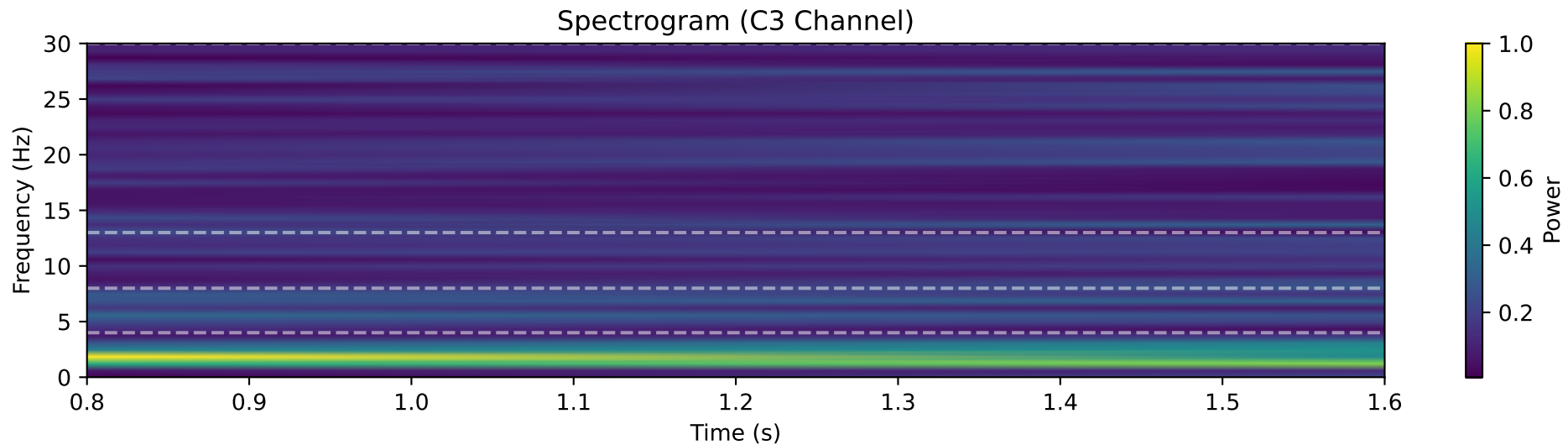
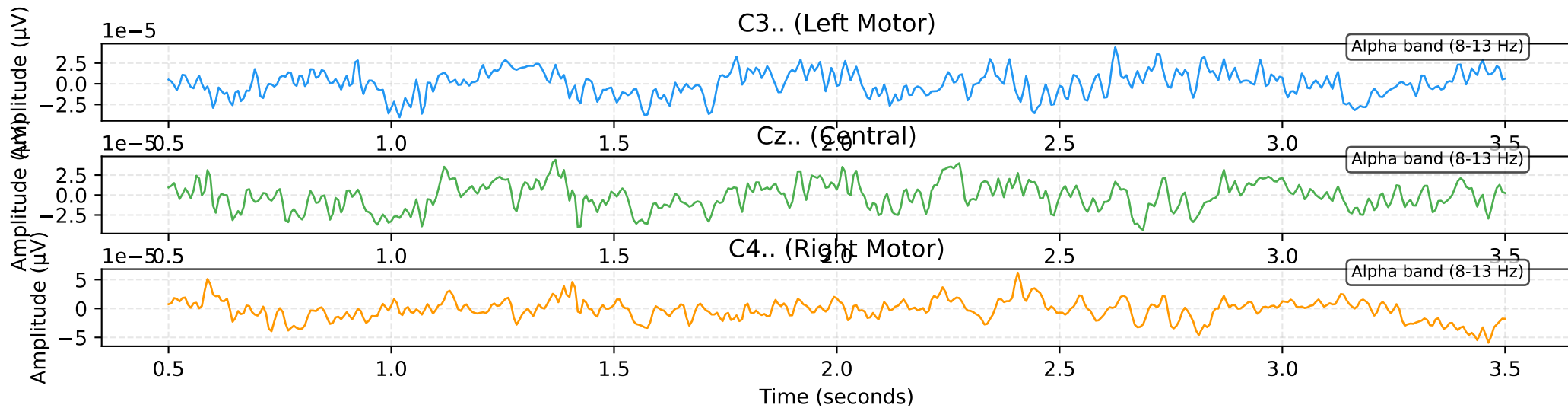
Subjects: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

Task: Task4

Date: 2025-05-19

Brain-Computer Interface: Motor Imagery Analysis

EEG Analysis - Subject 1, REST State



Mental Command: REST

REST STATE: Strong alpha rhythm present in all channels.

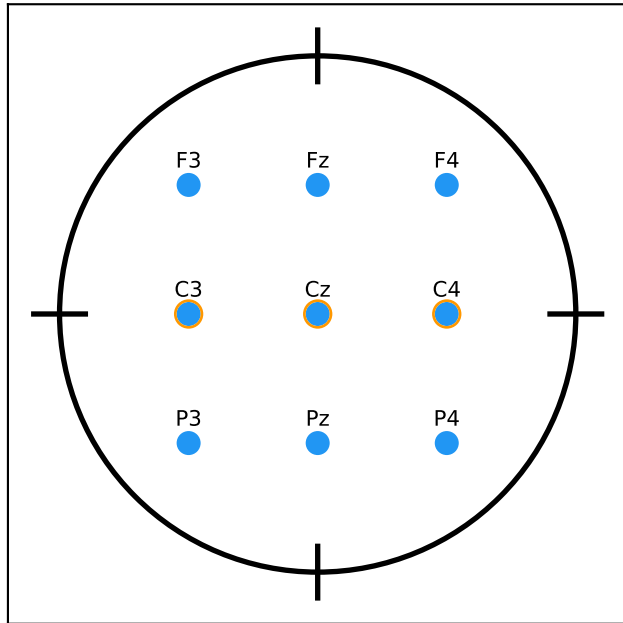
EEG Motor Imagery Patterns:

- REST: Strong alpha (10Hz) rhythms in all channels
 - LEFT Hand: ERD in right motor cortex (C4)
 - RIGHT Hand: ERD in left motor cortex (C3)

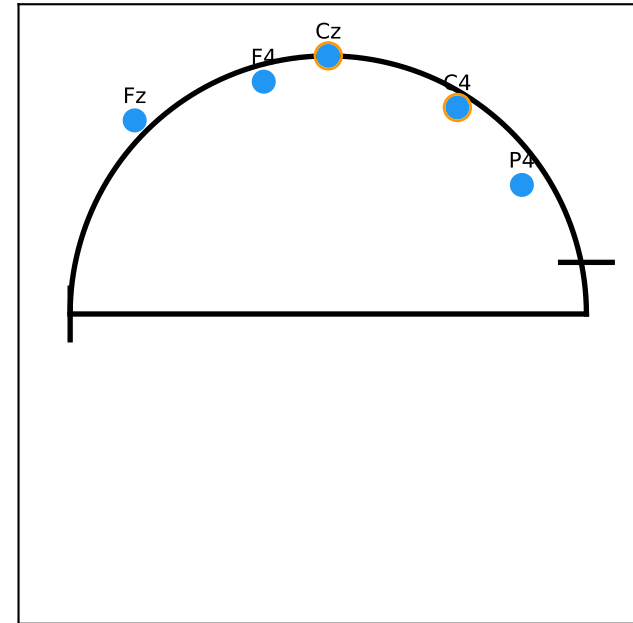
Brain Activity Topography

Subject 1, REST State

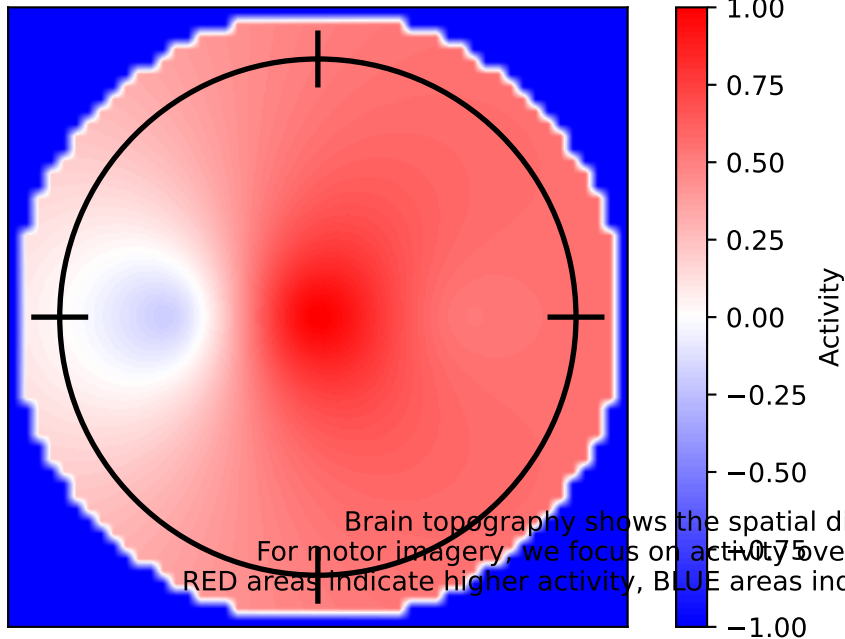
Top View



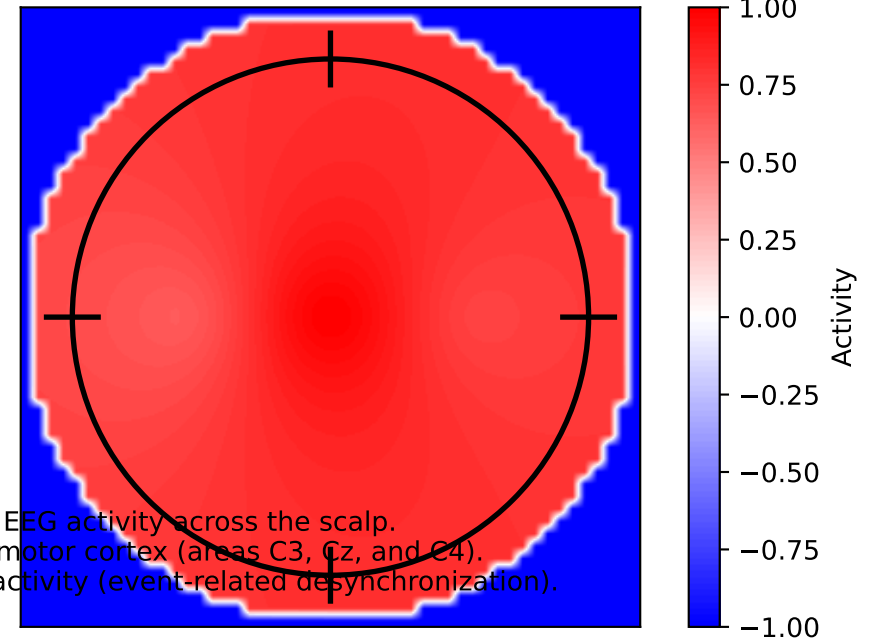
Side View



Alpha Band (8-13 Hz)



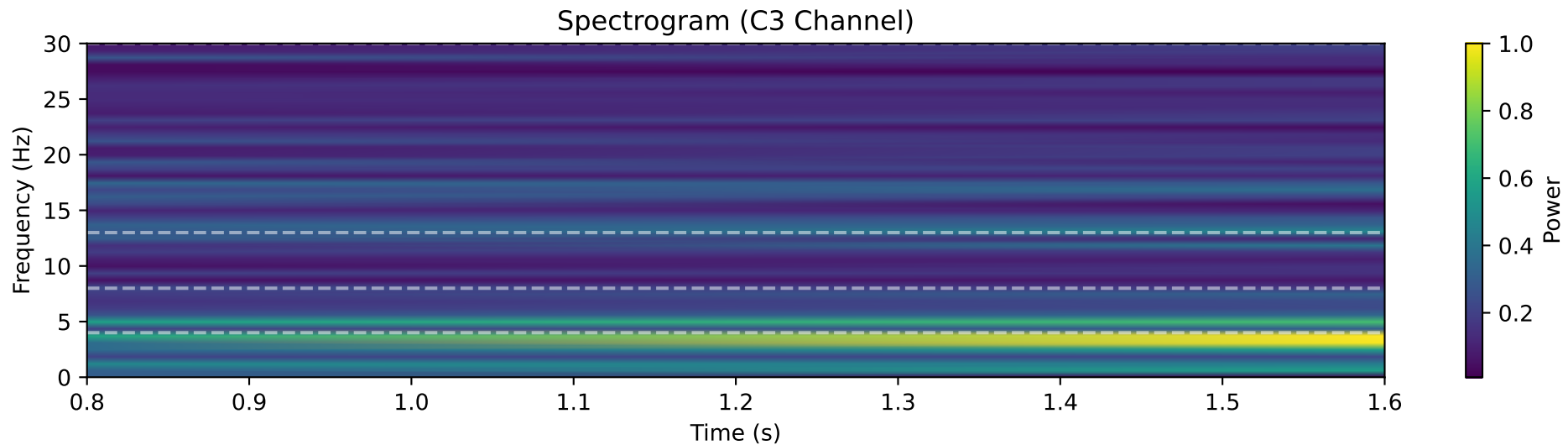
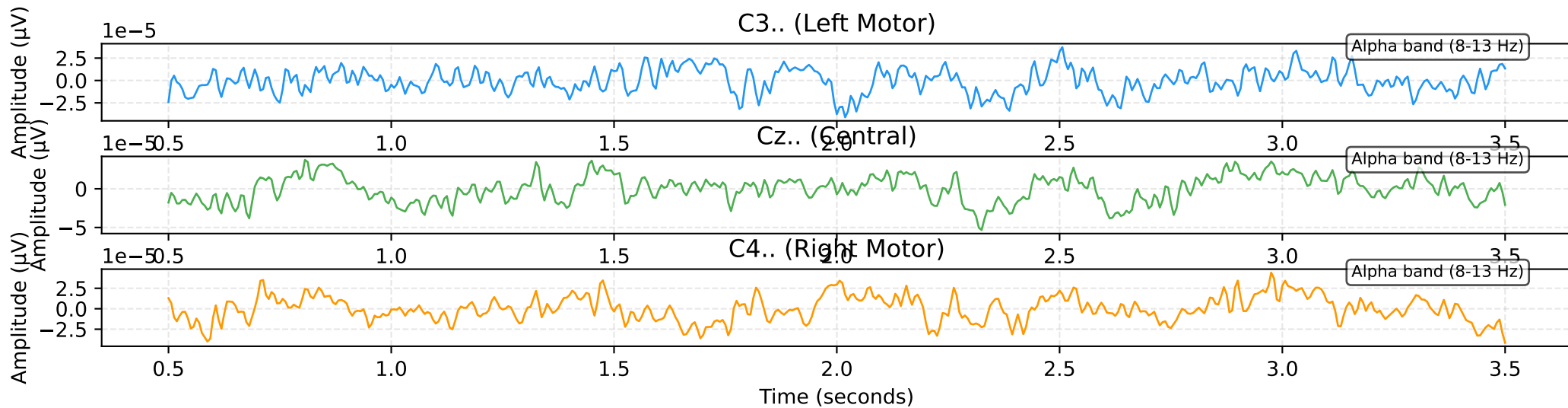
Beta Band (13-30 Hz)



Brain topography shows the spatial distribution of EEG activity across the scalp. For motor imagery, we focus on activity over the sensorimotor cortex (areas C3, Cz, and C4). RED areas indicate higher activity, BLUE areas indicate lower activity (event-related desynchronization).

Brain-Computer Interface: Motor Imagery Analysis

EEG Analysis - Subject 1, LEFT State



Mental Command: LEFT

LEFT HAND IMAGERY: Event-Related Desynchronization (ERD) in right motor cortex (C4).

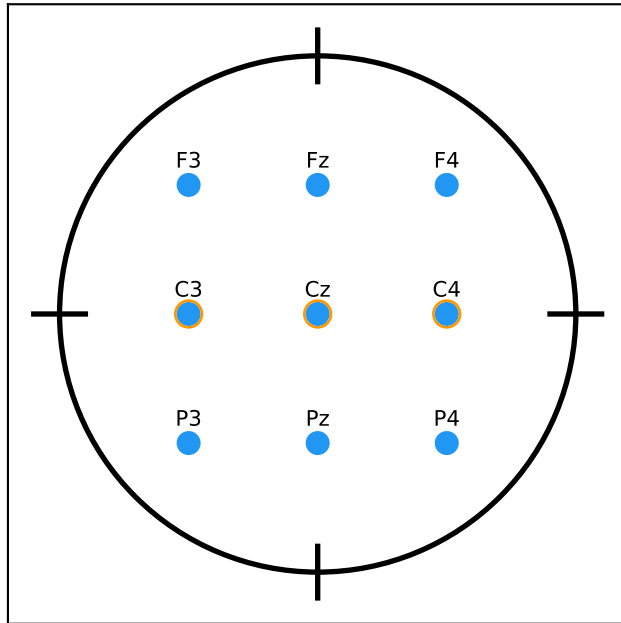
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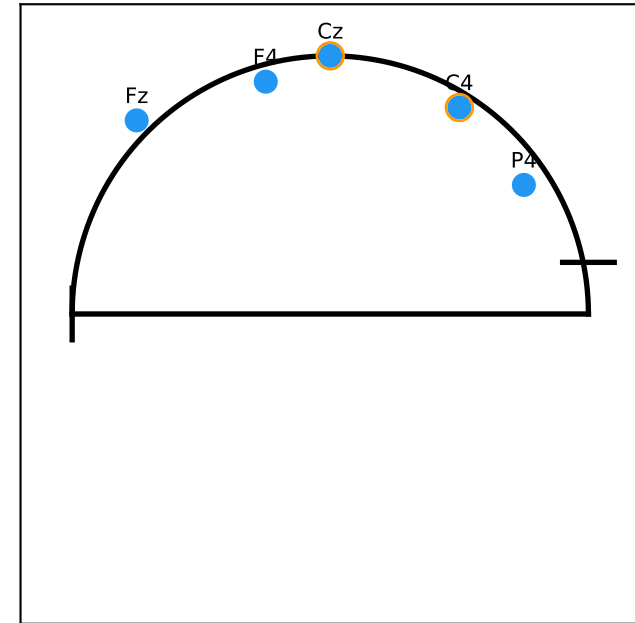
Brain Activity Topography

Subject 1, LEFT State

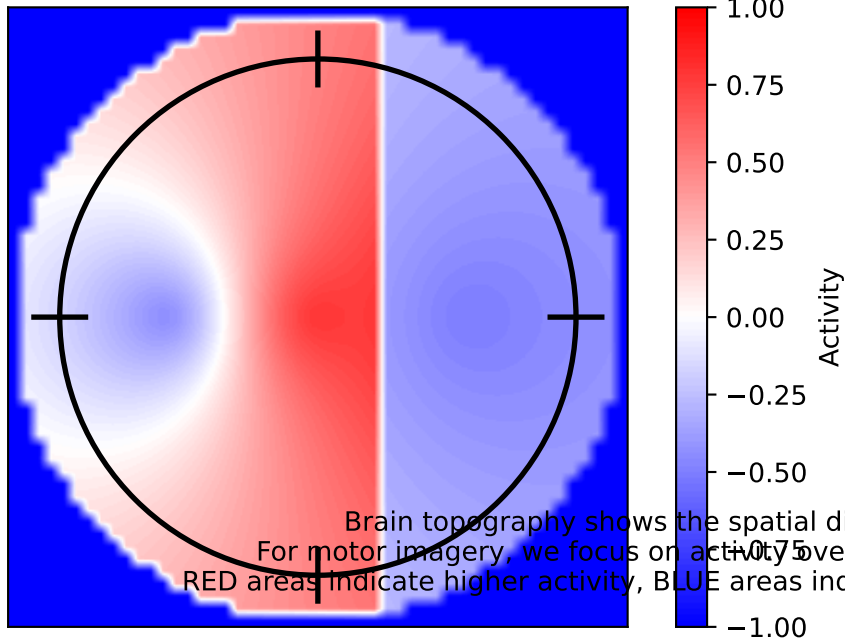
Top View



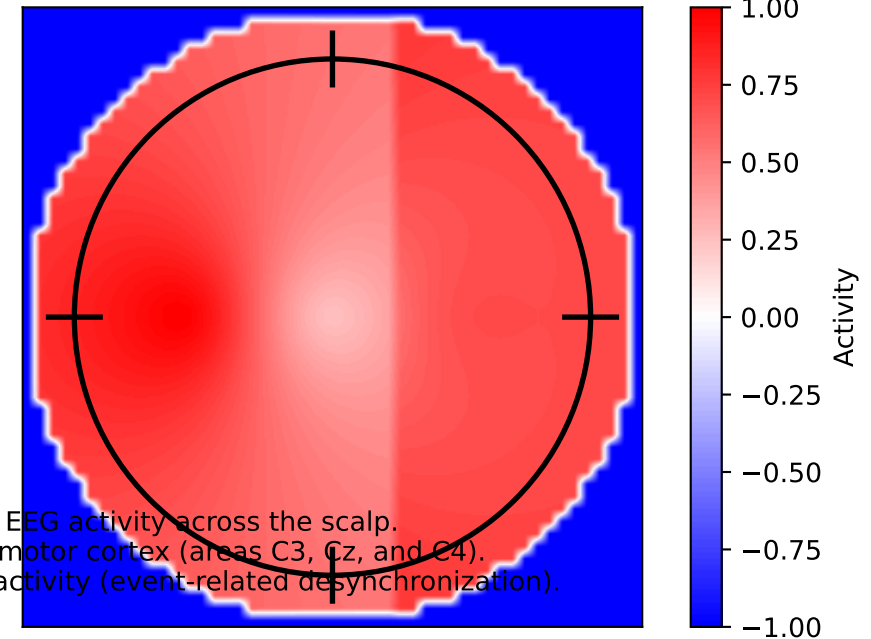
Side View



Alpha Band (8-13 Hz)



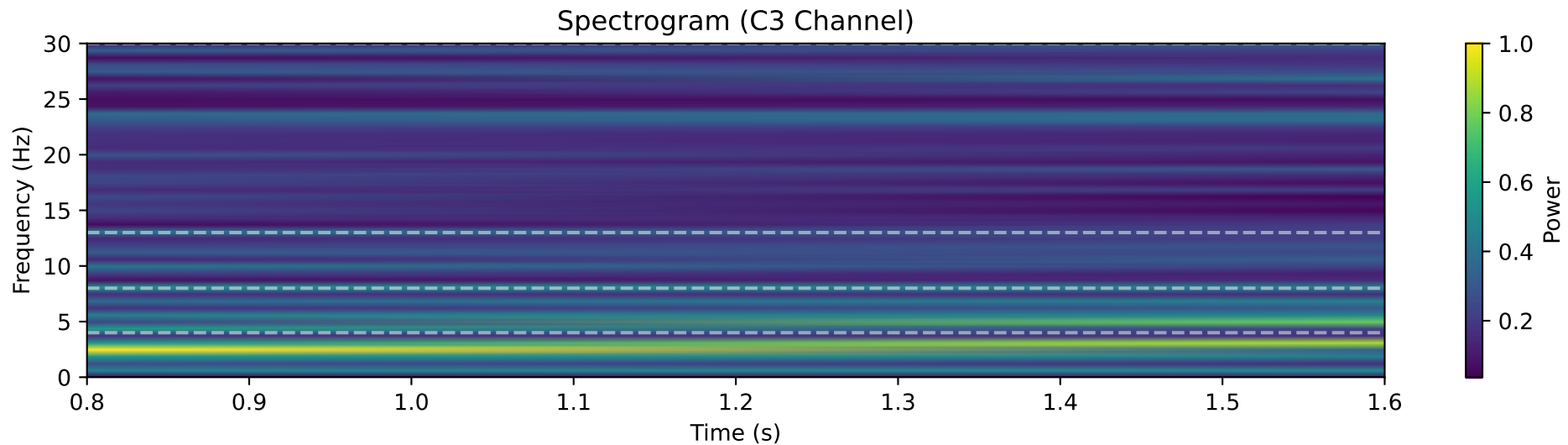
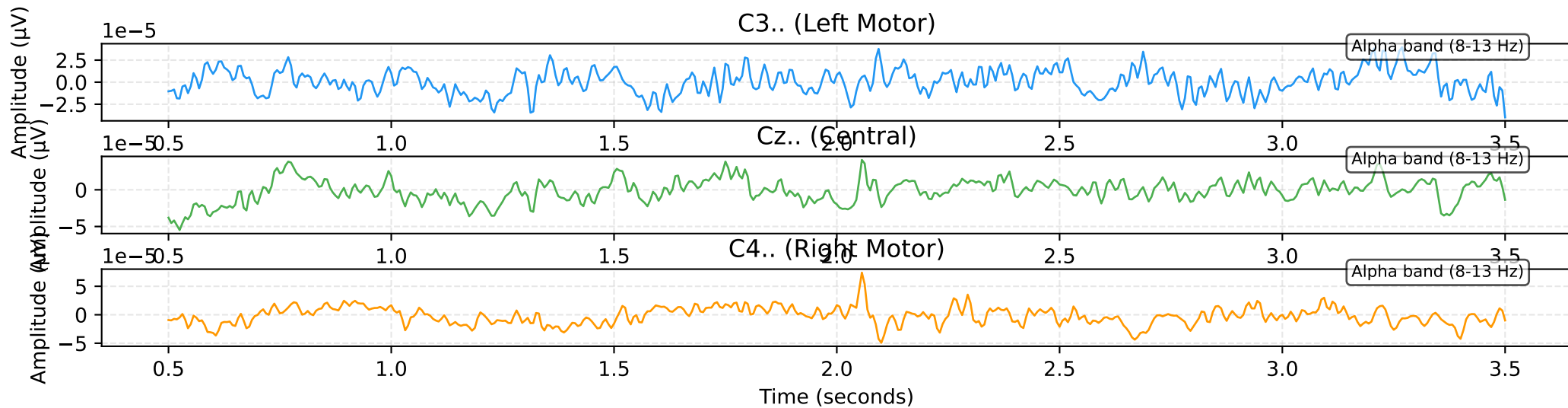
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For motor imagery, we focus on activity over the sensorimotor cortex (areas C3, Cz, and C4).
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Brain-Computer Interface: Motor Imagery Analysis

EEG Analysis - Subject 1, RIGHT State



Mental Command: RIGHT

RIGHT HAND IMAGERY: Event-Related Desynchronization (ERD) in left motor cortex (C3).

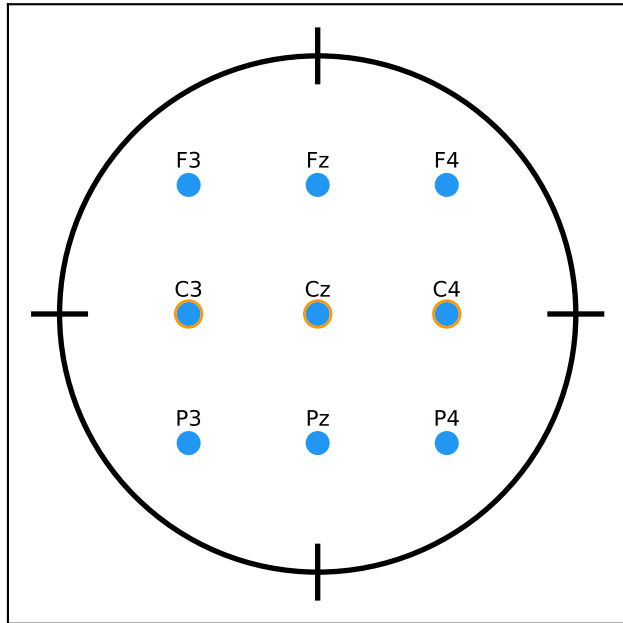
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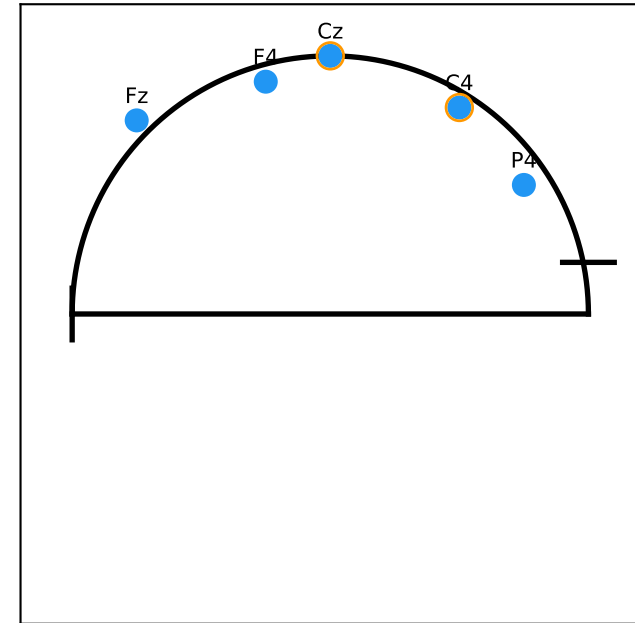
Brain Activity Topography

Subject 1, RIGHT State

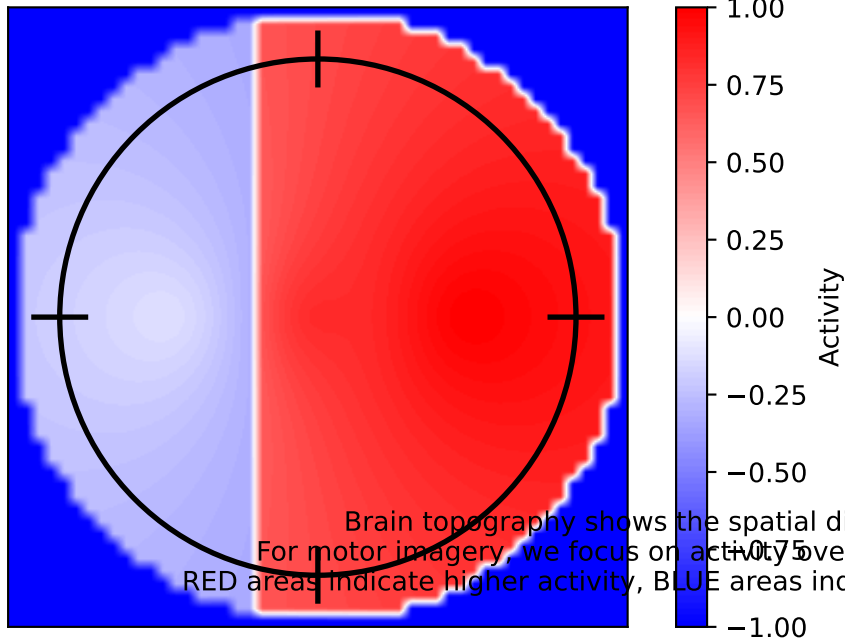
Top View



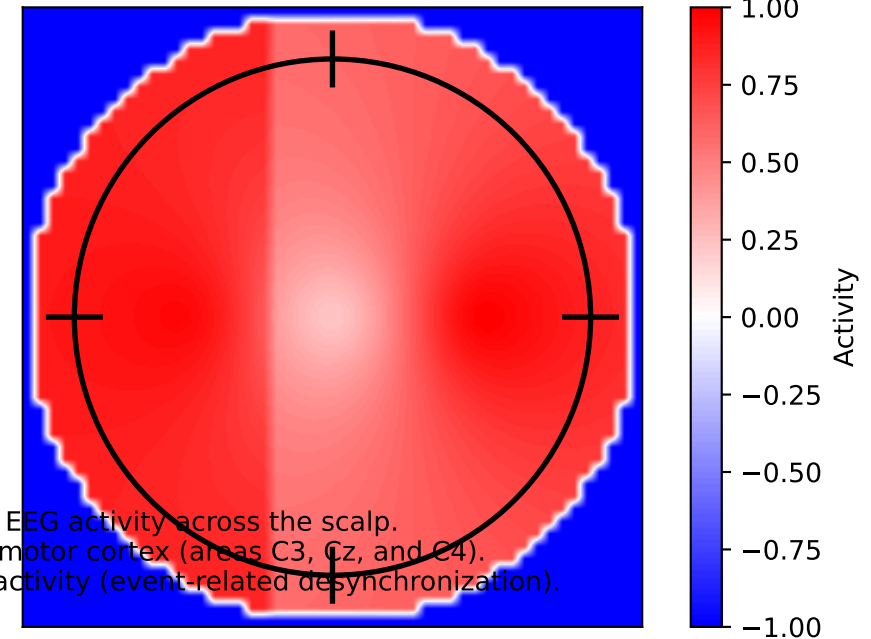
Side View



Alpha Band (8-13 Hz)



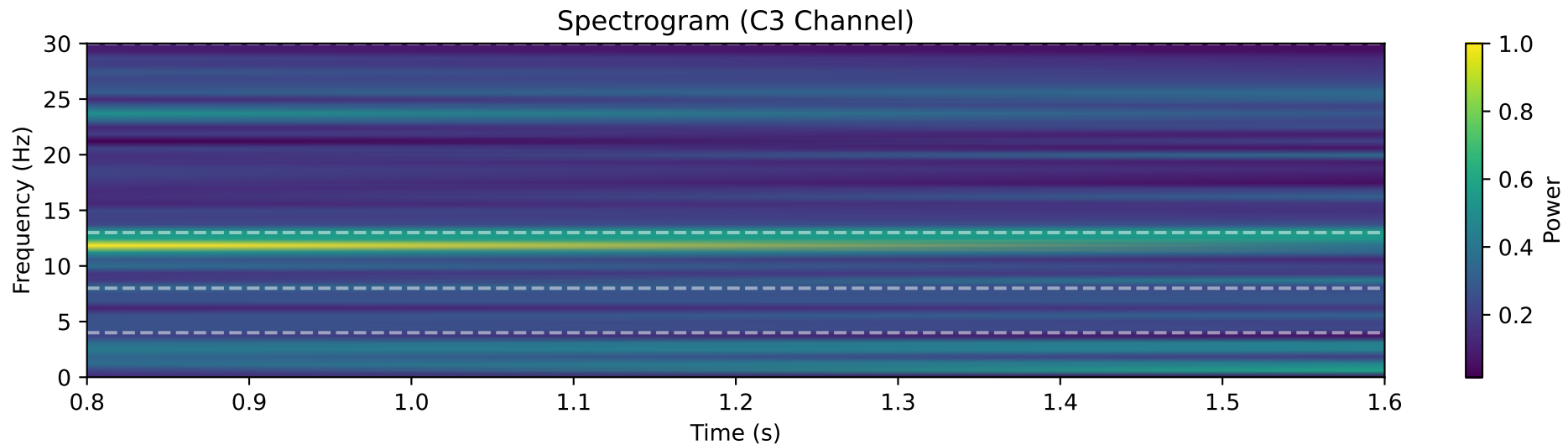
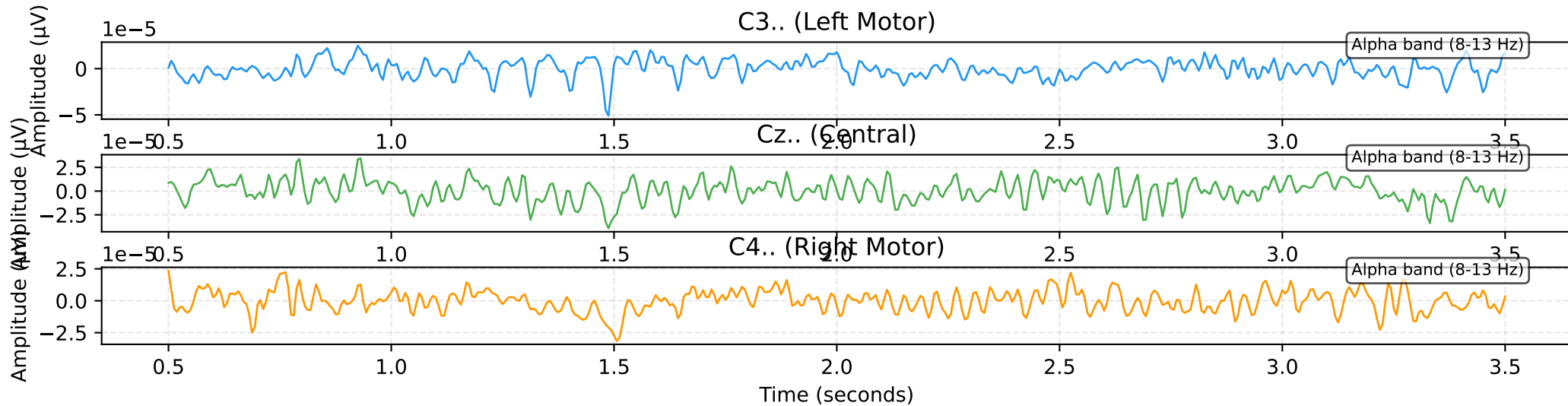
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Brain-Computer Interface: Motor Imagery Analysis

EEG Analysis - Subject 2, REST State



Mental Command: REST

REST STATE: Strong alpha rhythm present in all channels.

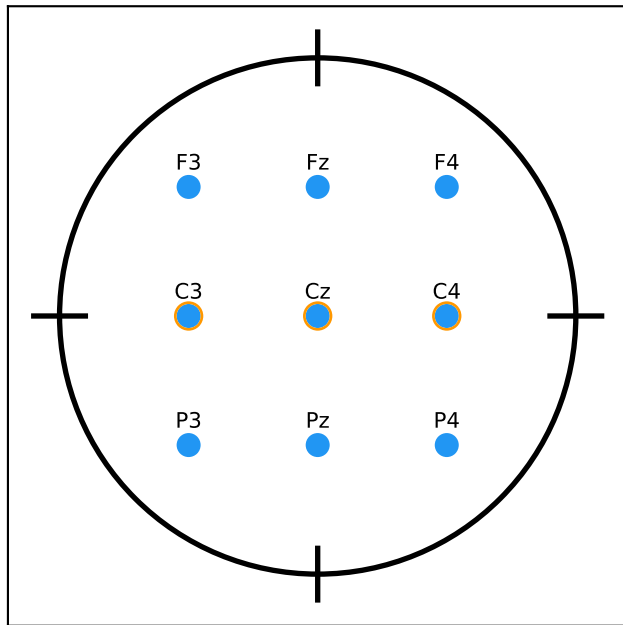
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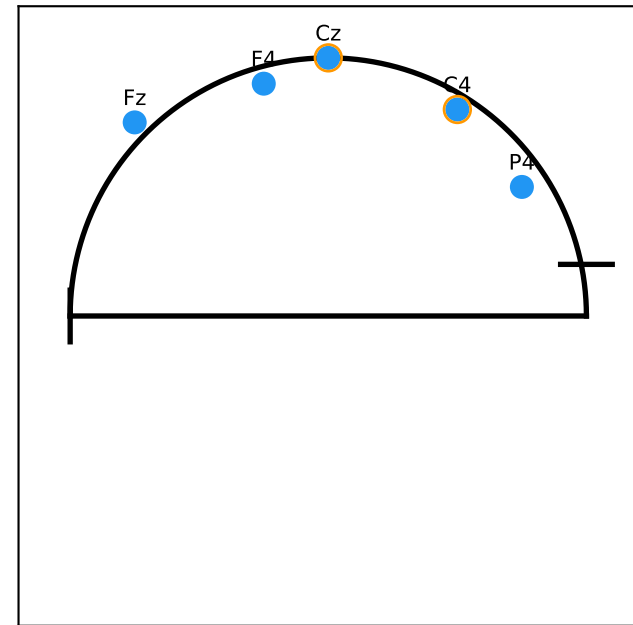
Brain Activity Topography

Subject 2, REST State

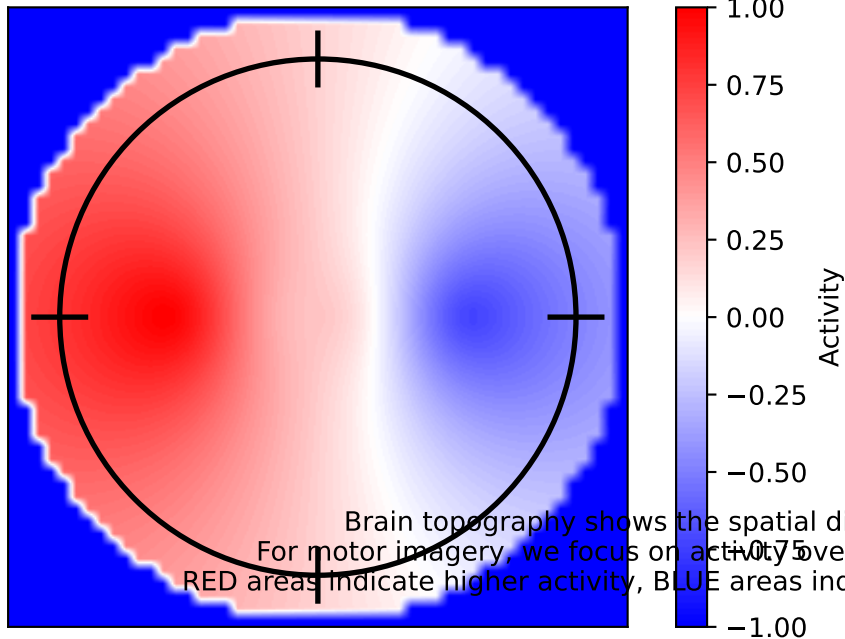
Top View



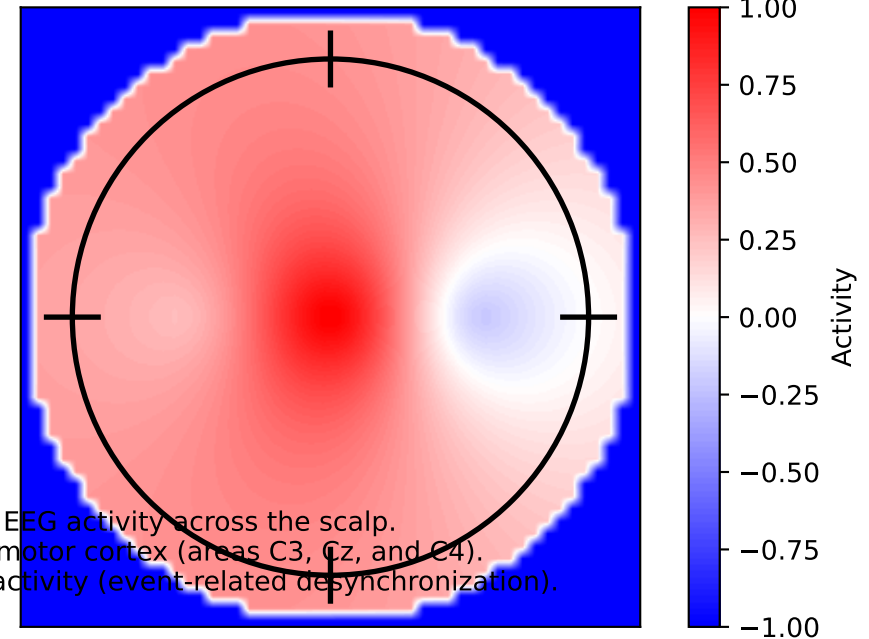
Side View



Alpha Band (8-13 Hz)



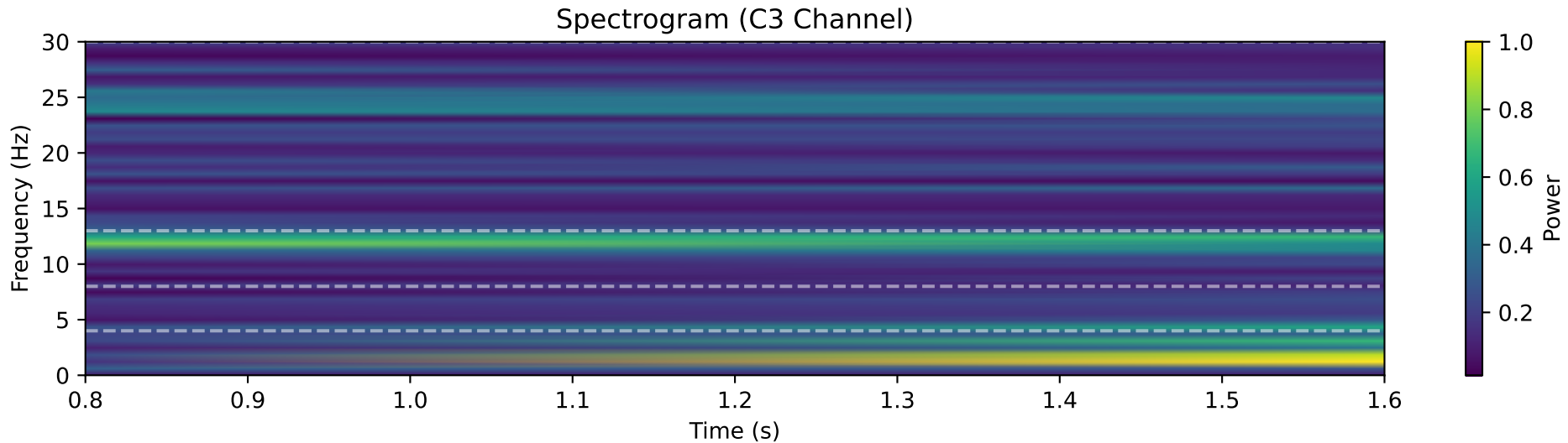
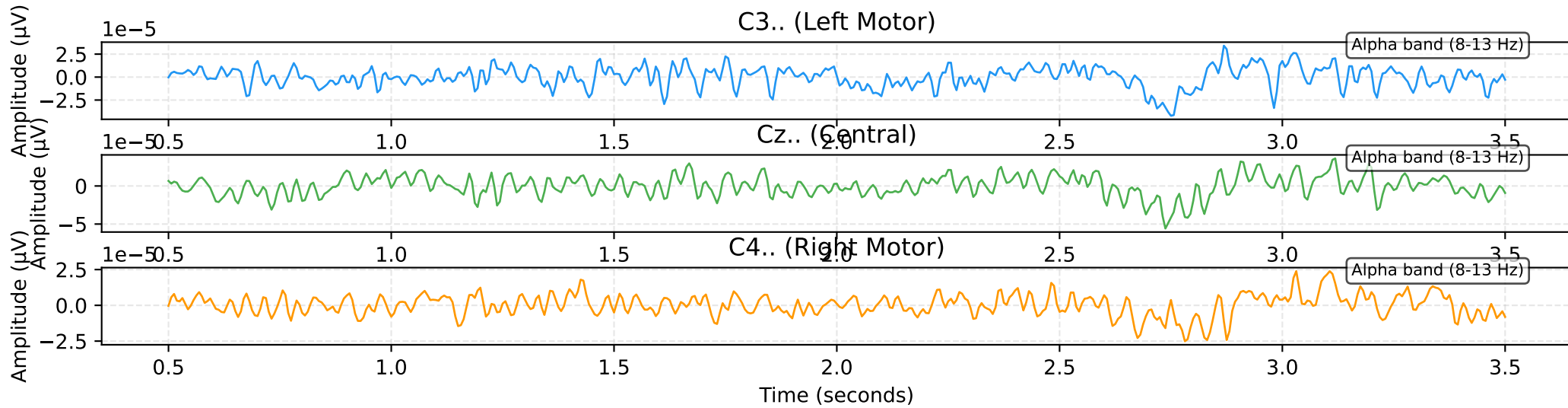
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Brain-Computer Interface: Motor Imagery Analysis

EEG Analysis - Subject 2, LEFT State



Mental Command: LEFT

LEFT HAND IMAGERY: Event-Related Desynchronization (ERD) in right motor cortex (C4).

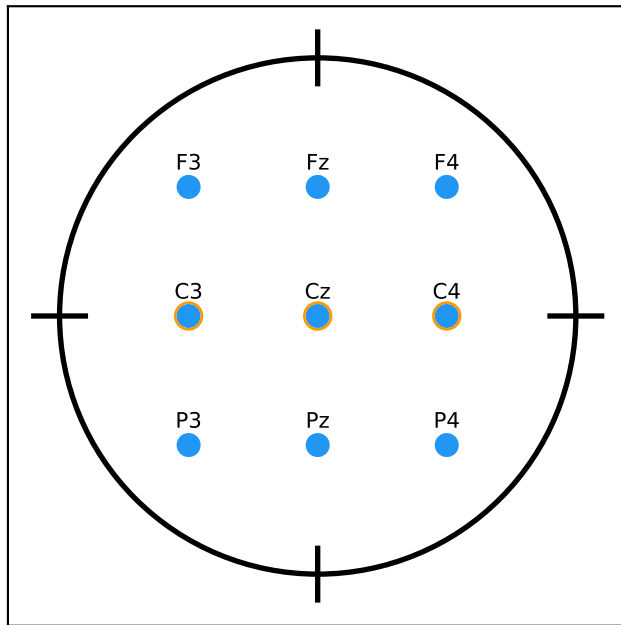
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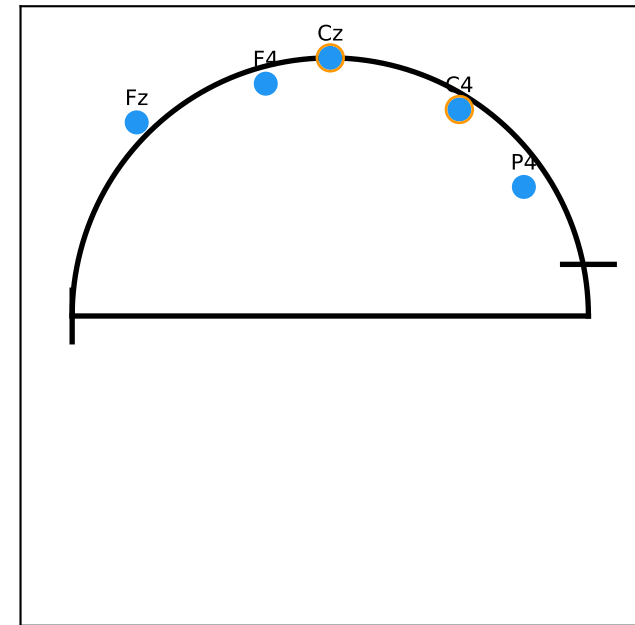
Brain Activity Topography

Subject 2, LEFT State

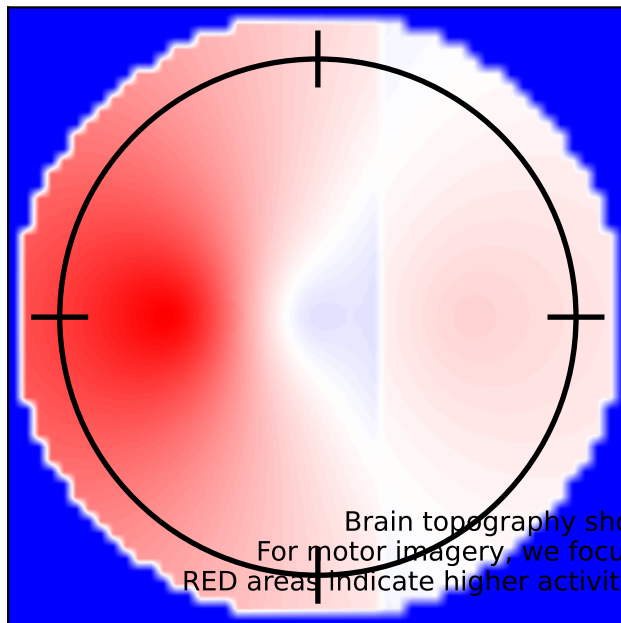
Top View



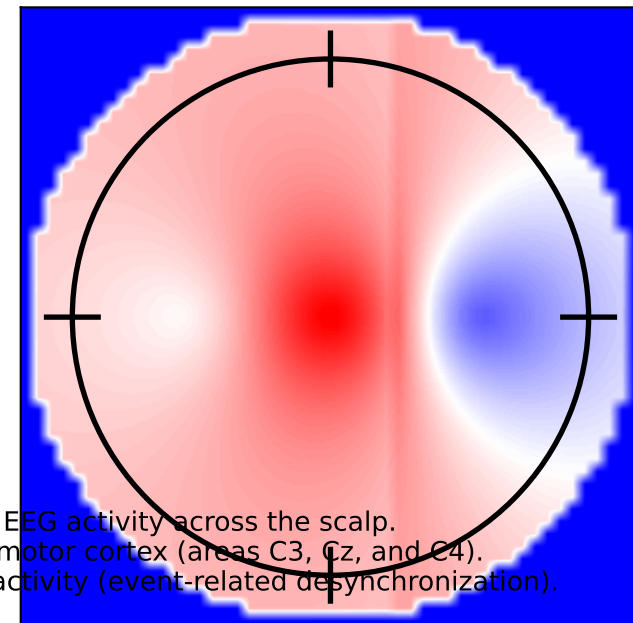
Side View



Alpha Band (8-13 Hz)



Beta Band (13-30 Hz)



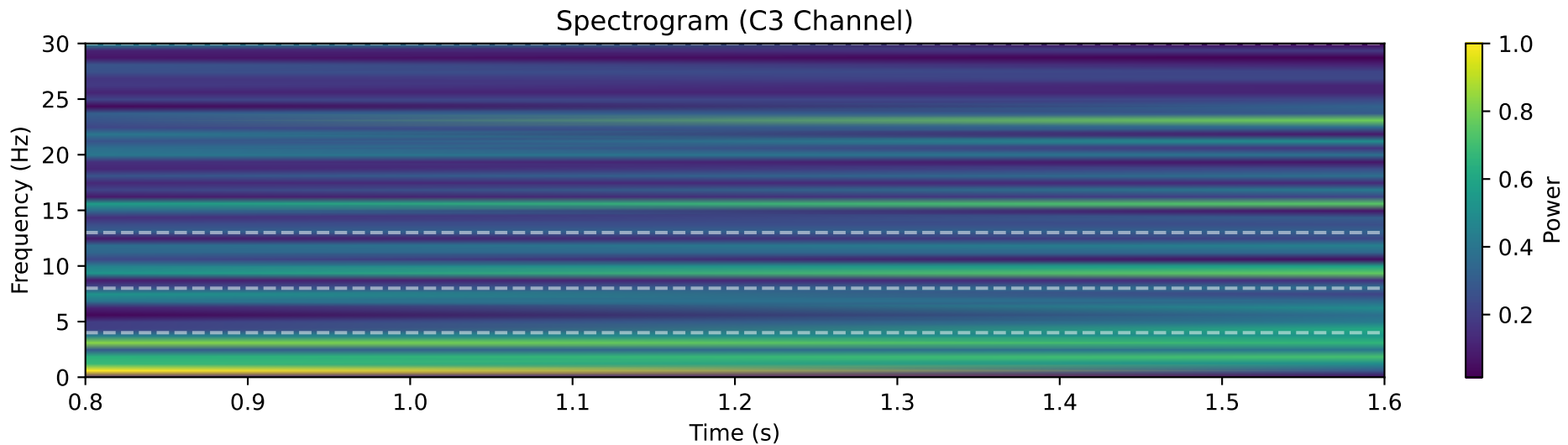
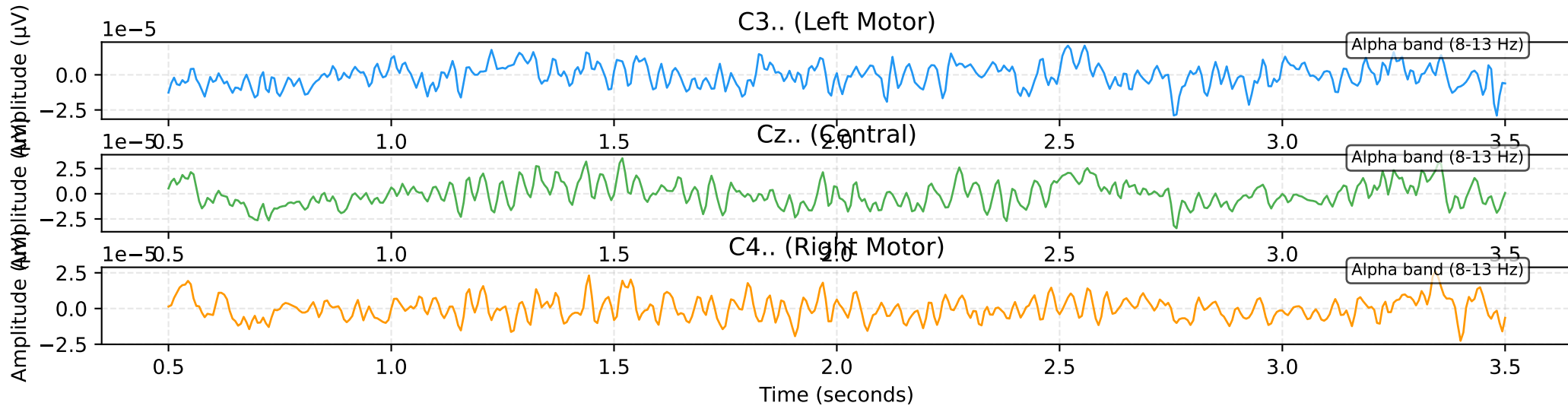
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Activity

Activity

Brain-Computer Interface: Motor Imagery Analysis

EEG Analysis - Subject 2, RIGHT State



Mental Command: RIGHT

RIGHT HAND IMAGERY: Event-Related Desynchronization (ERD) in left motor cortex (C3).

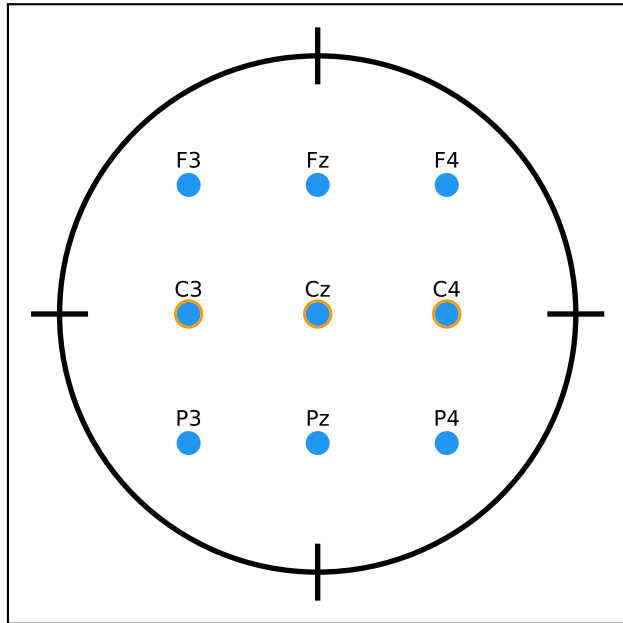
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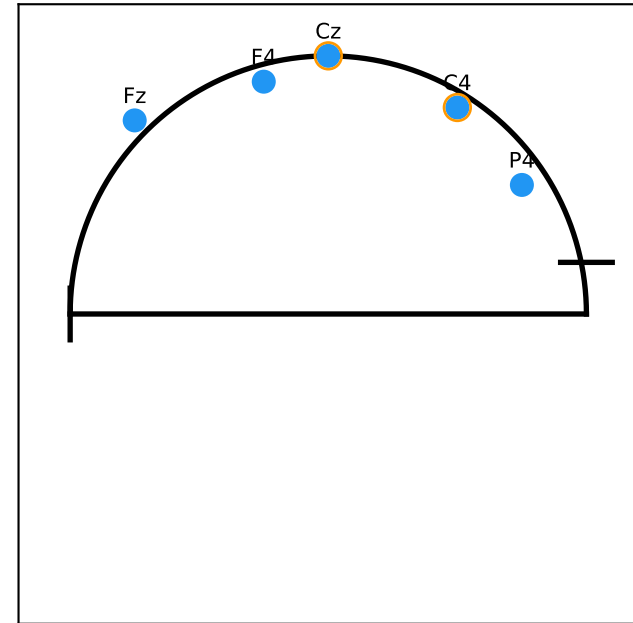
Brain Activity Topography

Subject 2, RIGHT State

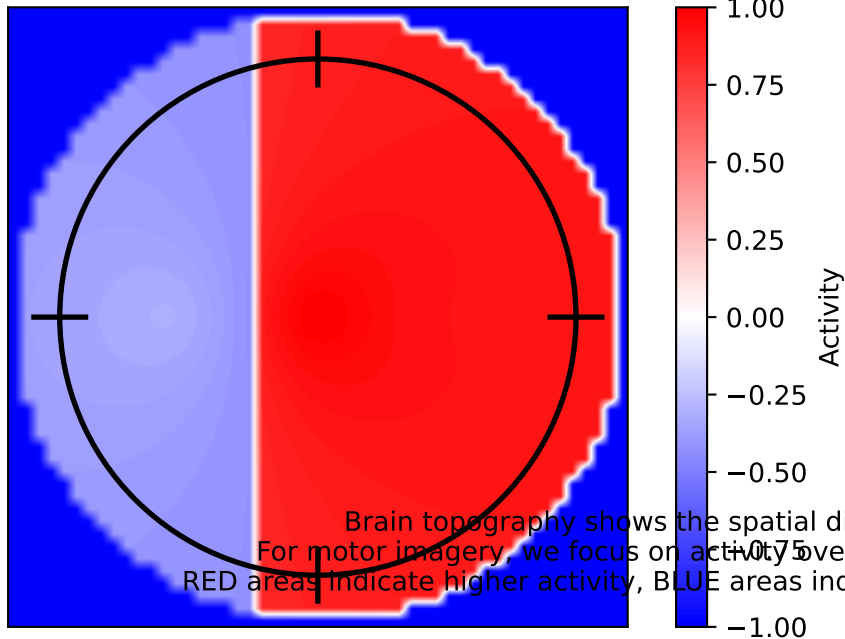
Top View



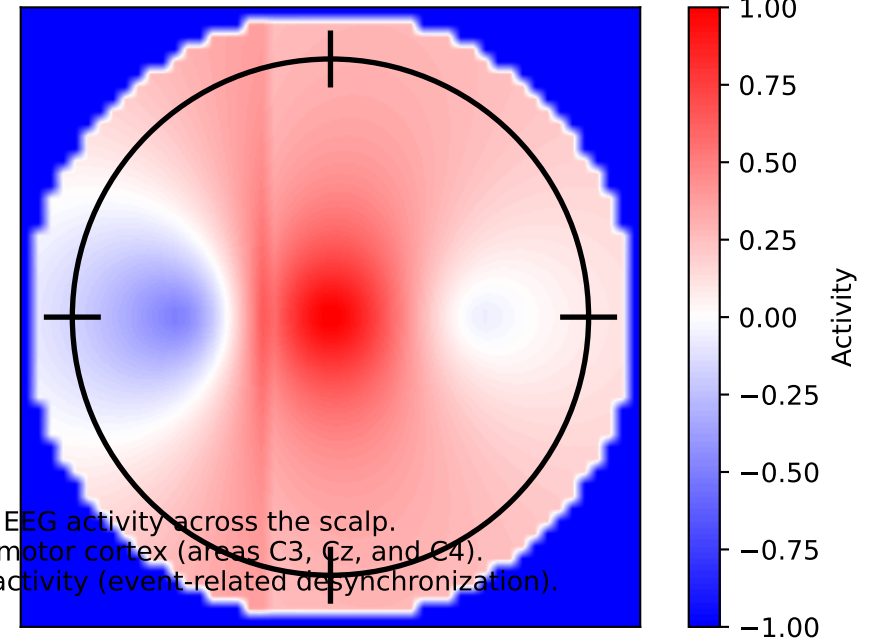
Side View



Alpha Band (8-13 Hz)



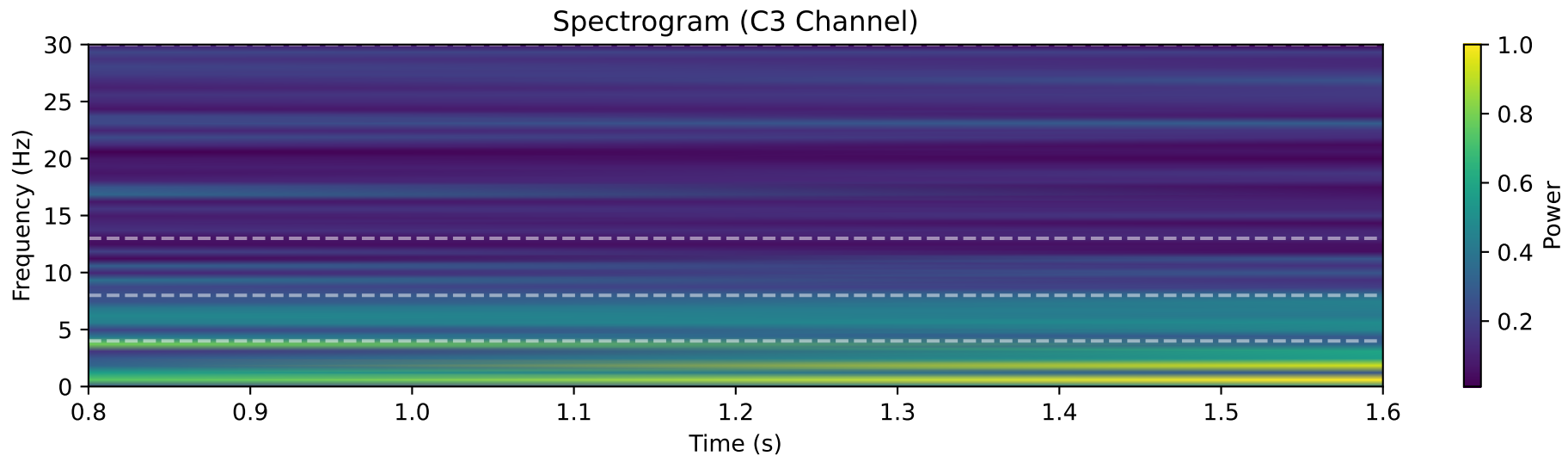
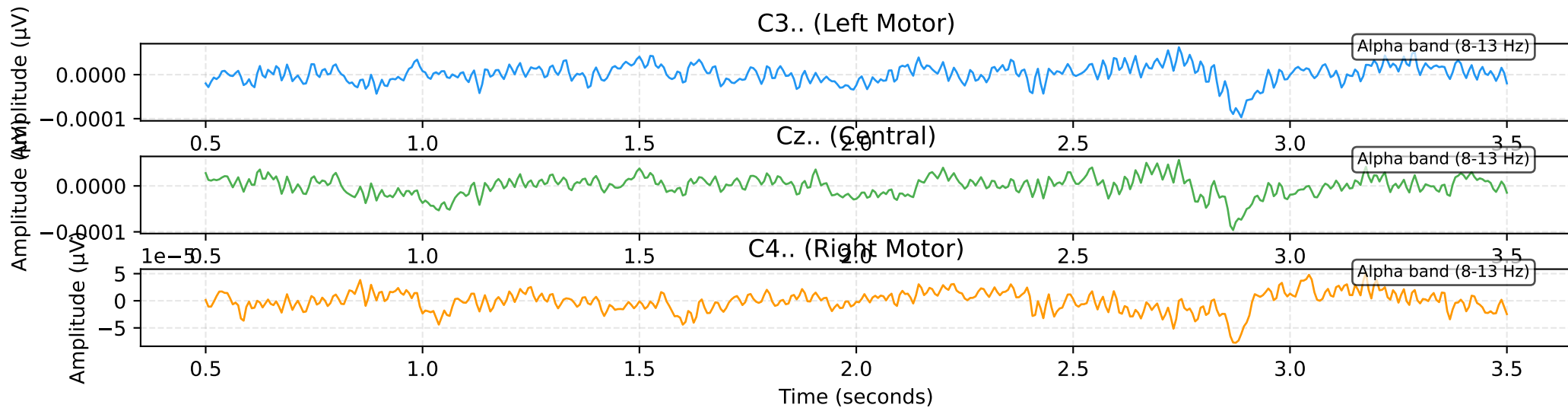
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Brain-Computer Interface: Motor Imagery Analysis

EEG Analysis - Subject 3, REST State



Mental Command: REST

REST STATE: Strong alpha rhythm present in all channels.

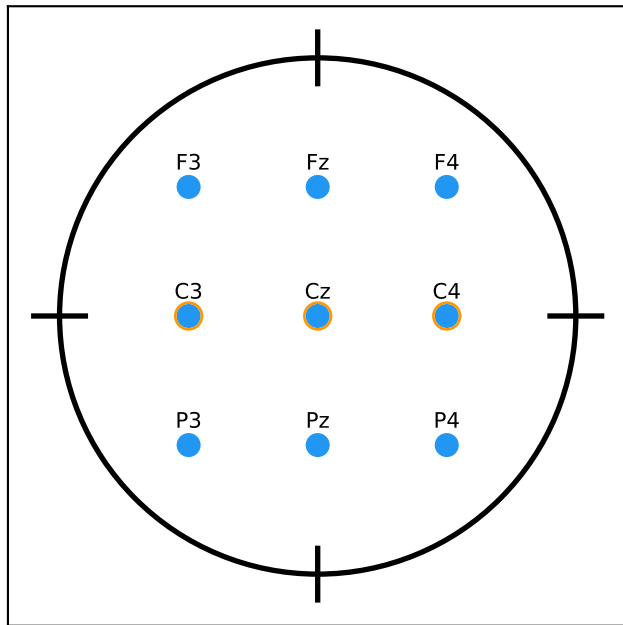
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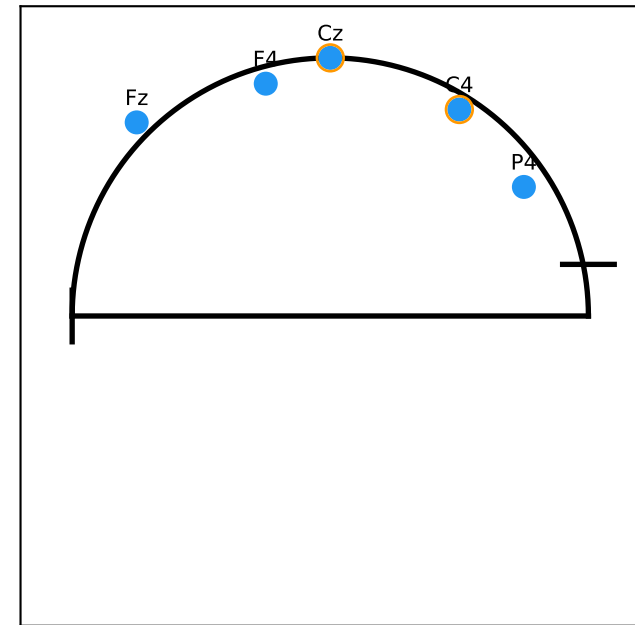
Brain Activity Topography

Subject 3, REST State

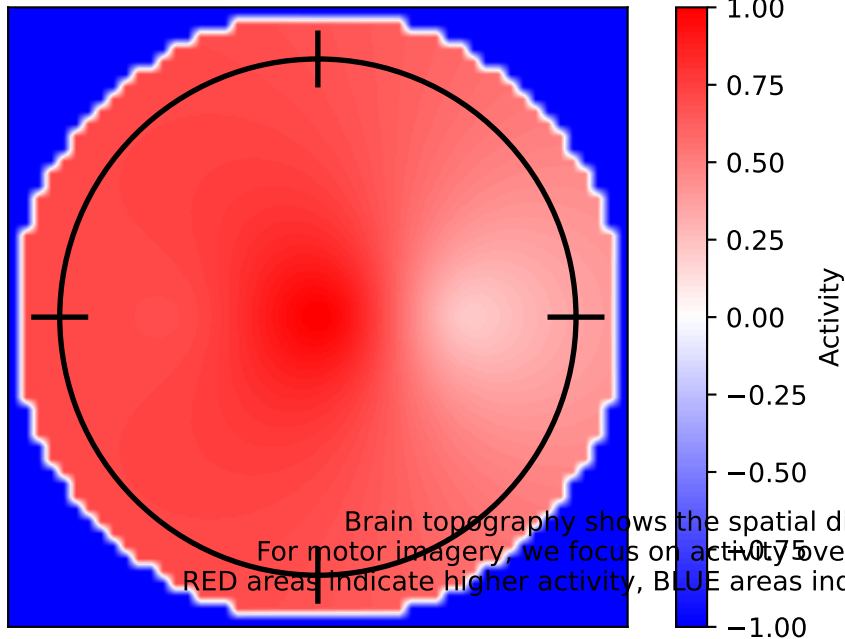
Top View



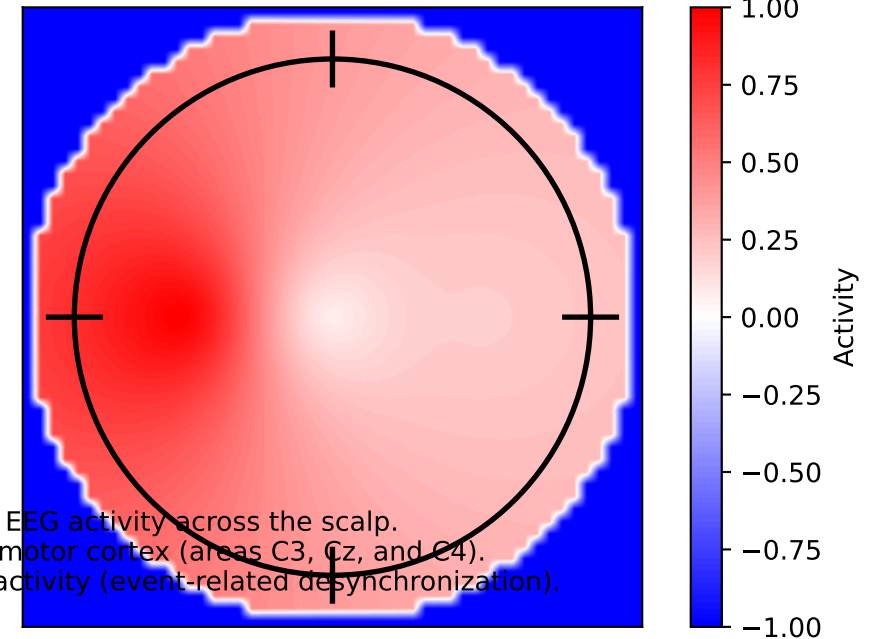
Side View



Alpha Band (8-13 Hz)



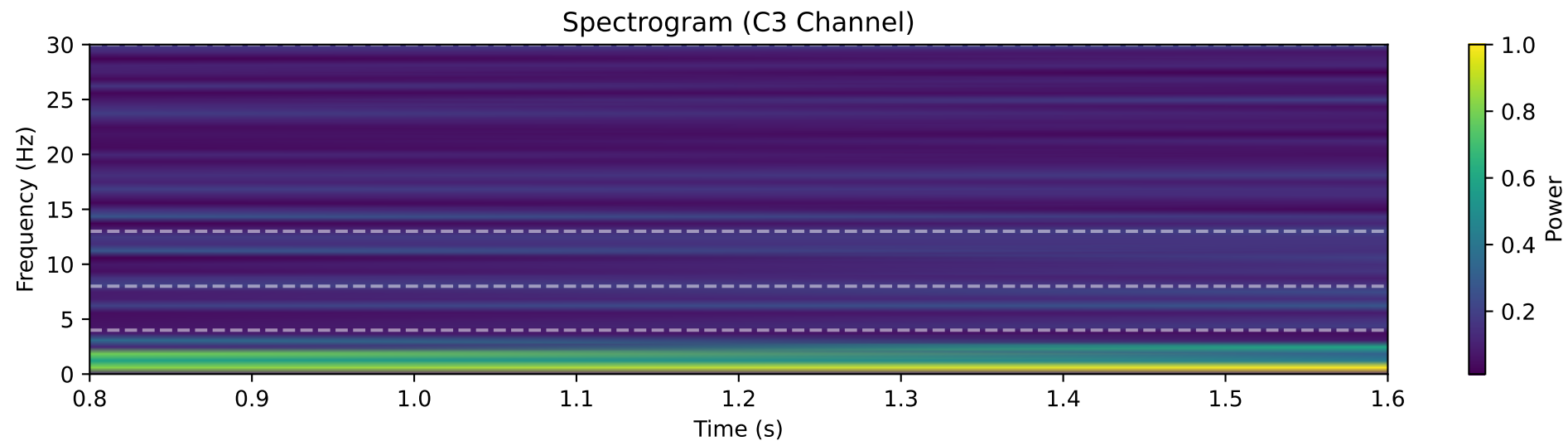
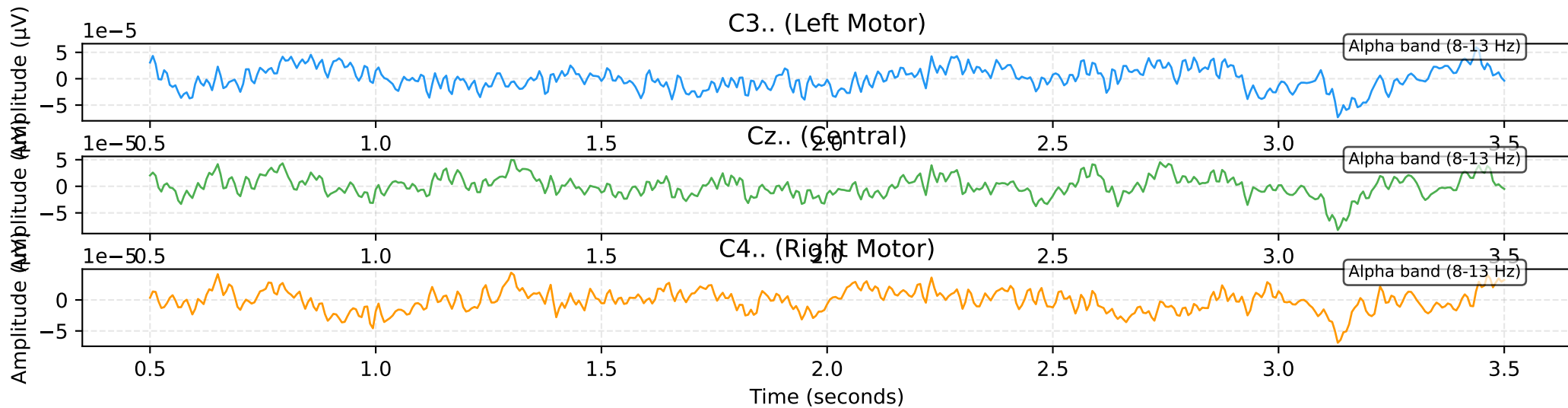
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Brain-Computer Interface: Motor Imagery Analysis

EEG Analysis - Subject 3, LEFT State



Mental Command: LEFT

LEFT HAND IMAGERY: Event-Related Desynchronization (ERD) in right motor cortex (C4).

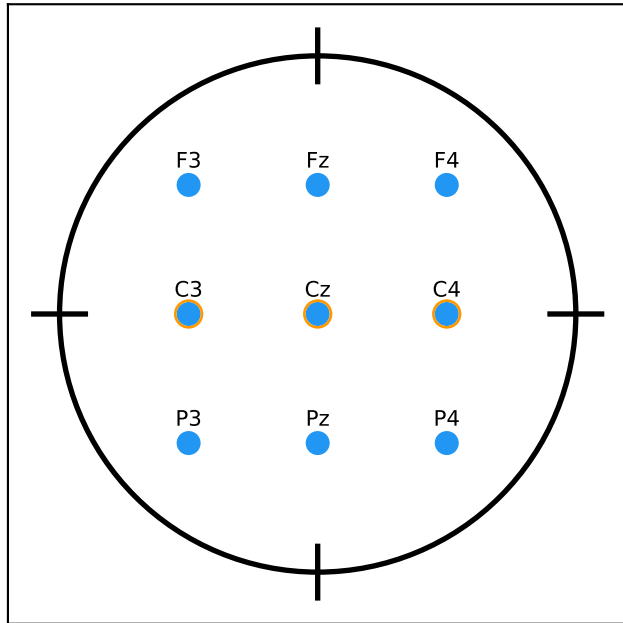
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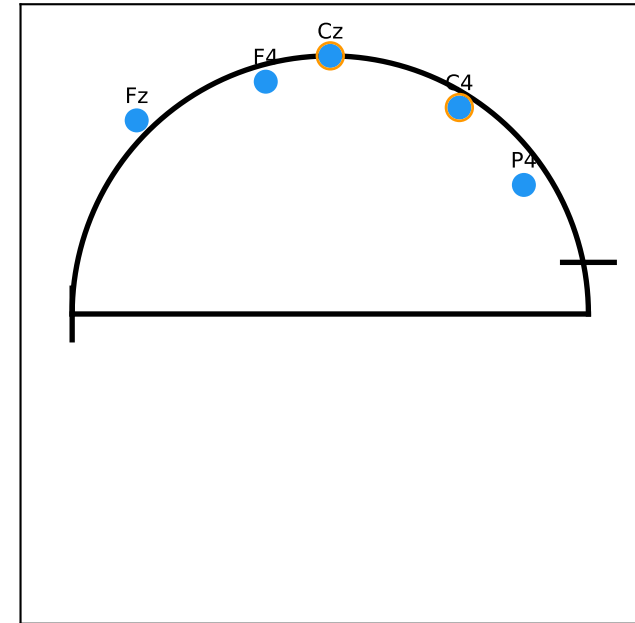
Brain Activity Topography

Subject 3, LEFT State

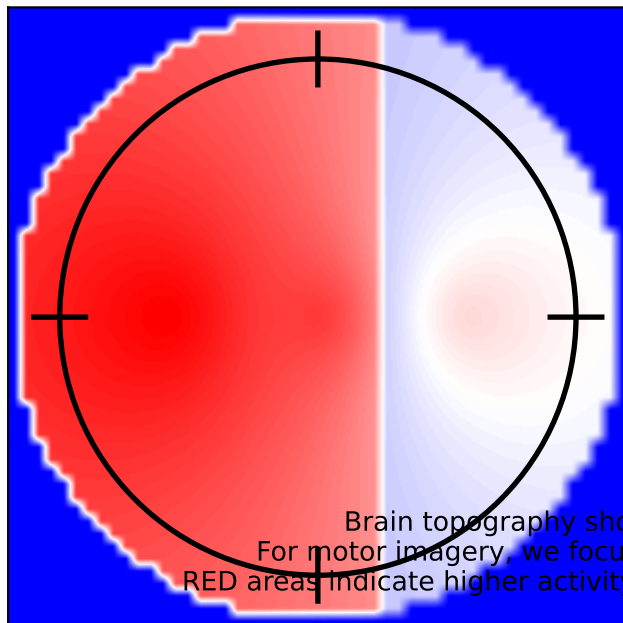
Top View



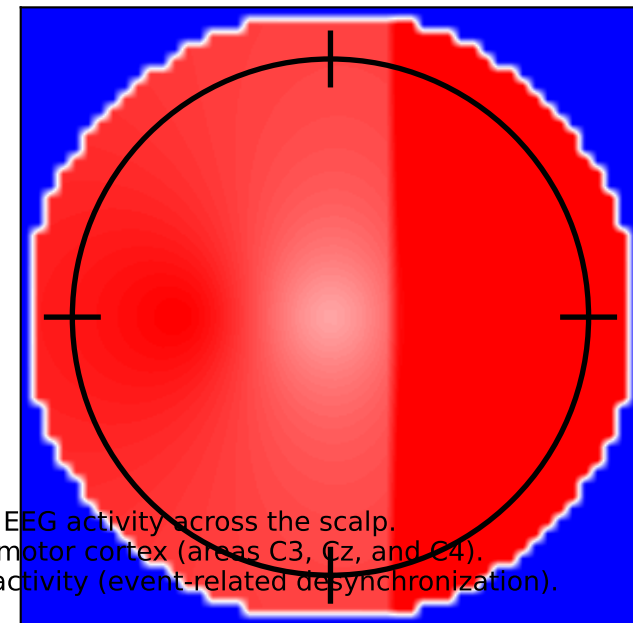
Side View



Alpha Band (8-13 Hz)



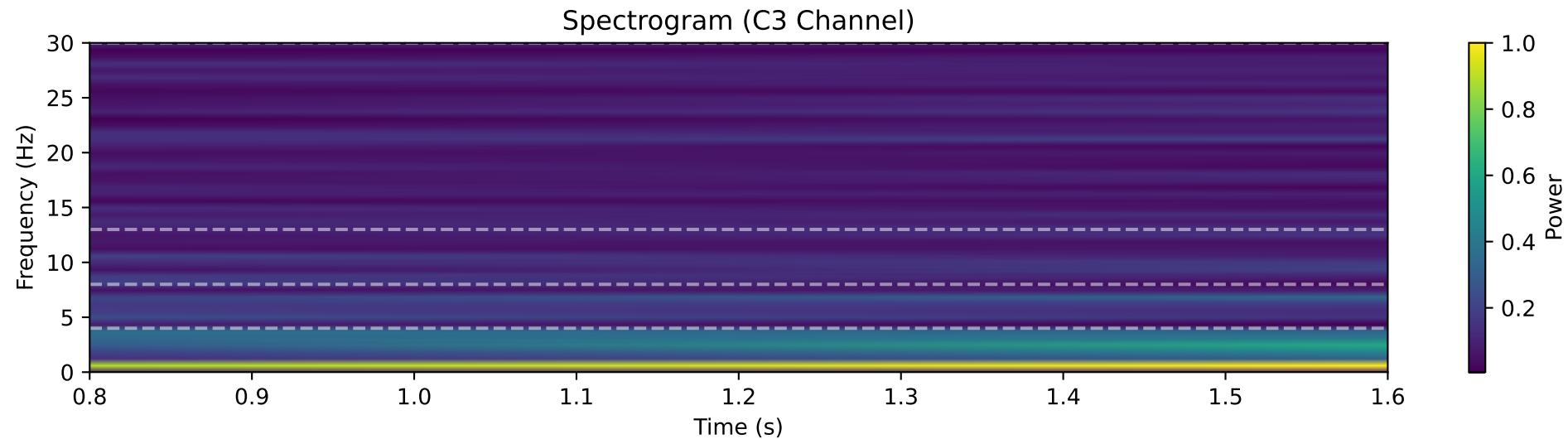
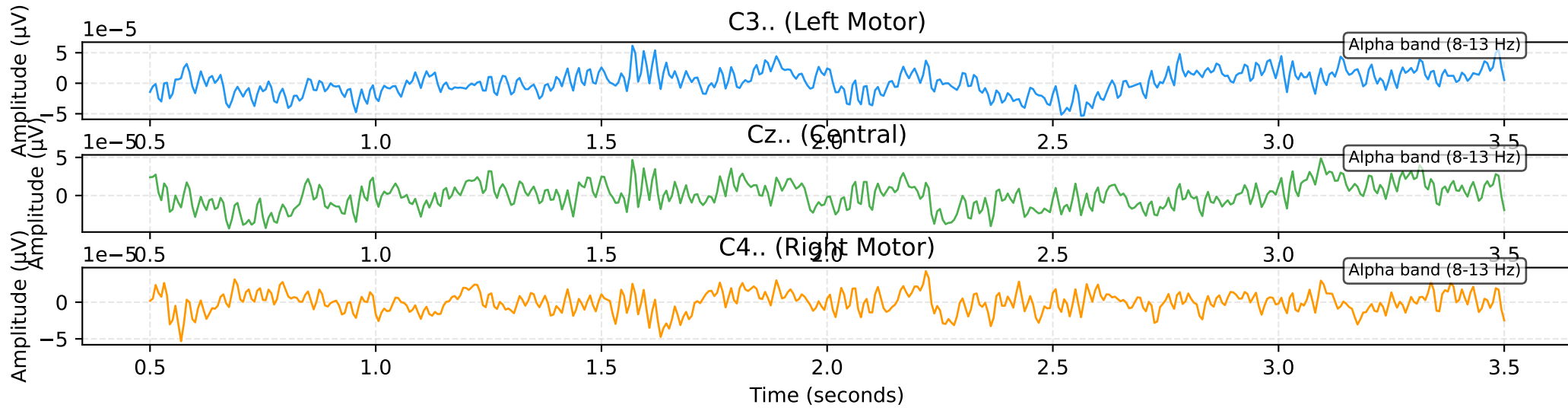
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EEG Analysis - Subject 3, RIGHT State



Mental Command: RIGHT

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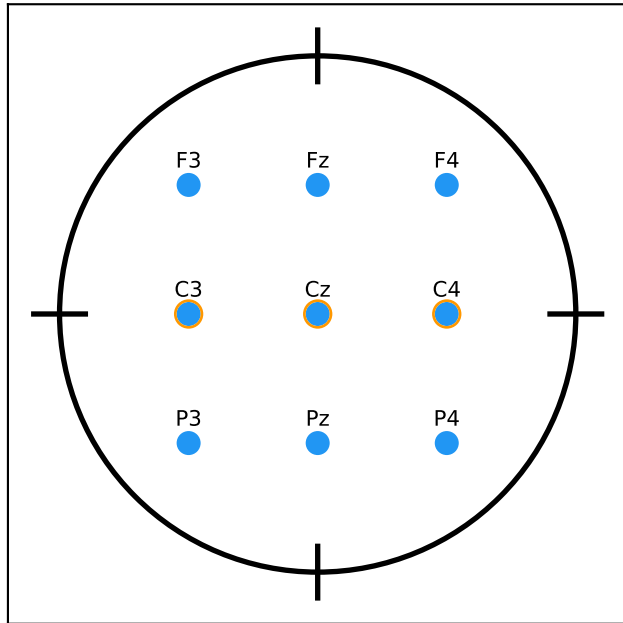
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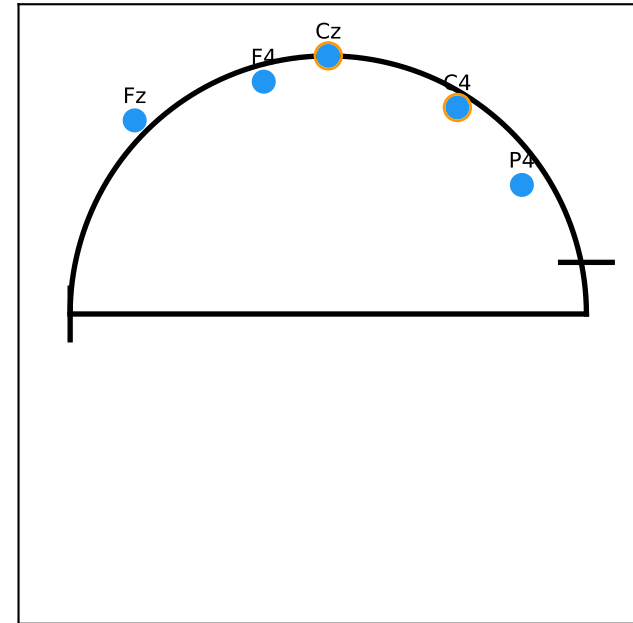
Brain Activity Topography

Subject 3, RIGHT State

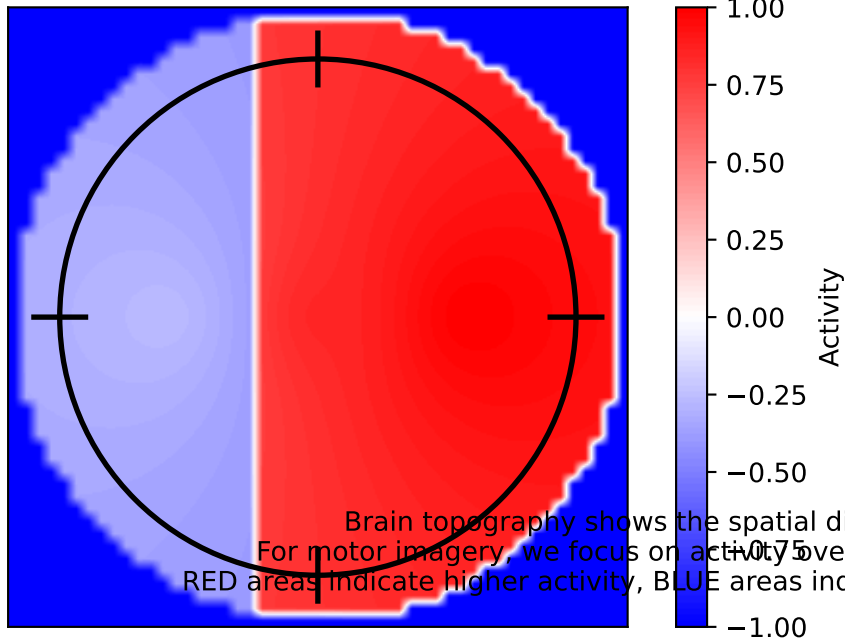
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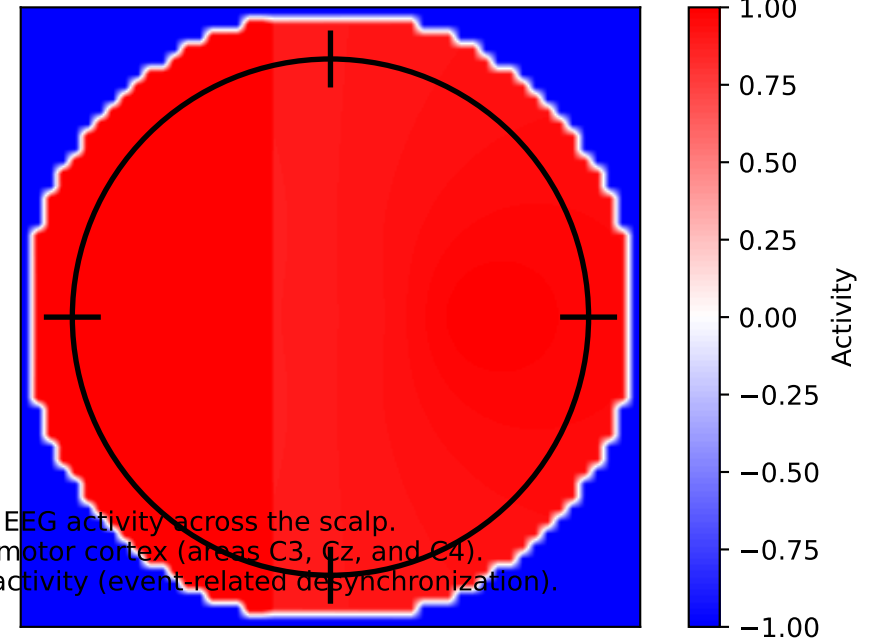
Side View



Alpha Band (8-13 Hz)



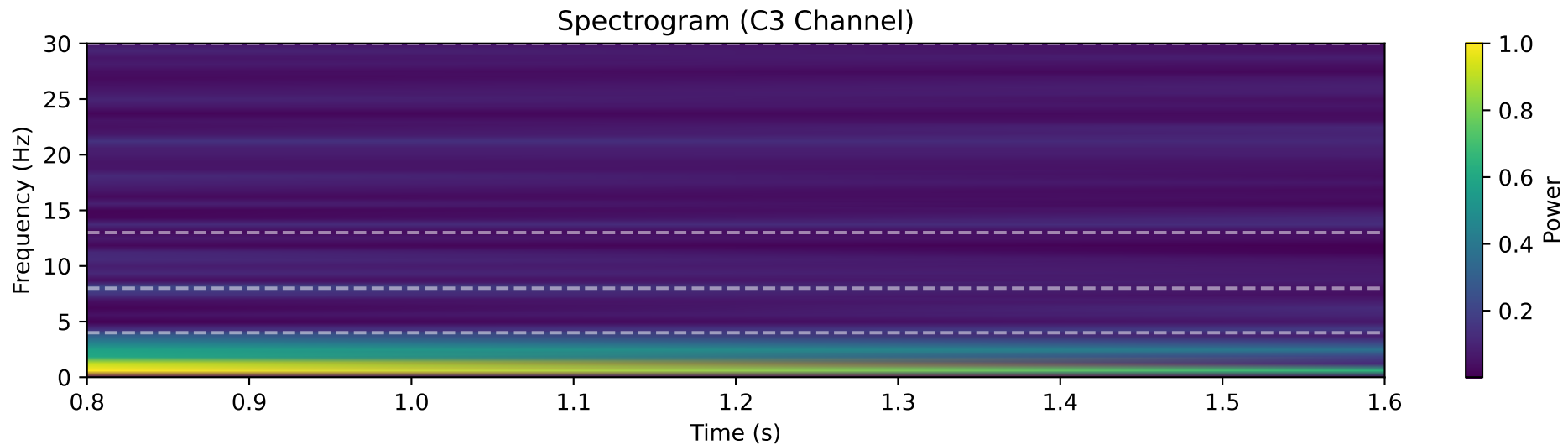
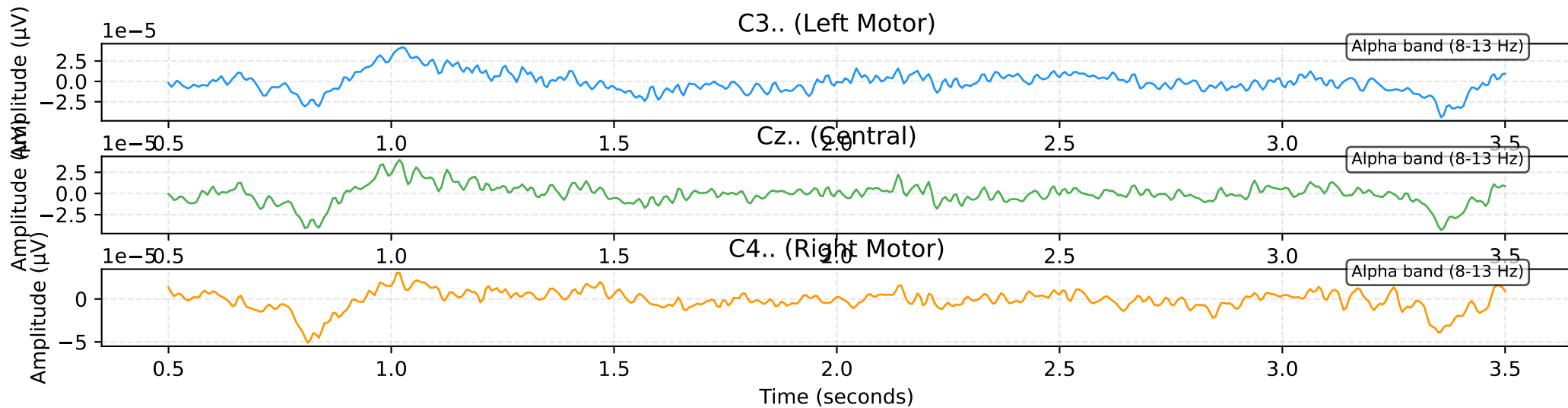
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Brain-Computer Interface: Motor Imagery Analysis

EEG Analysis - Subject 4, REST State



Mental Command: REST

REST STATE: Strong alpha rhythm present in all channels.

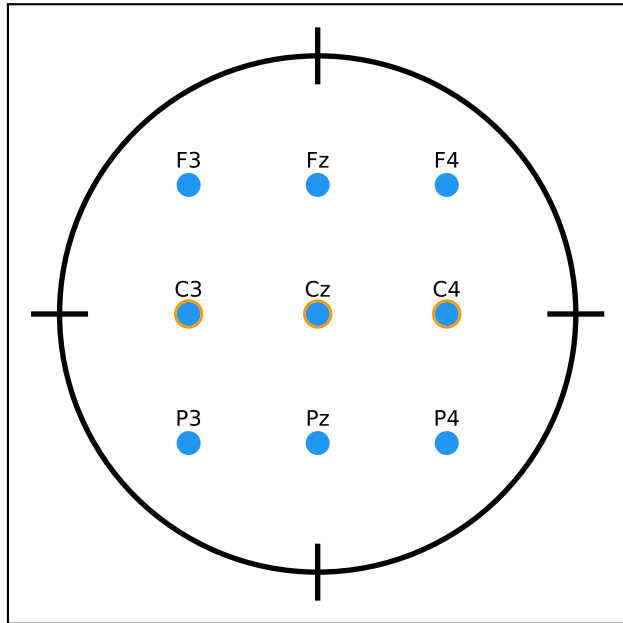
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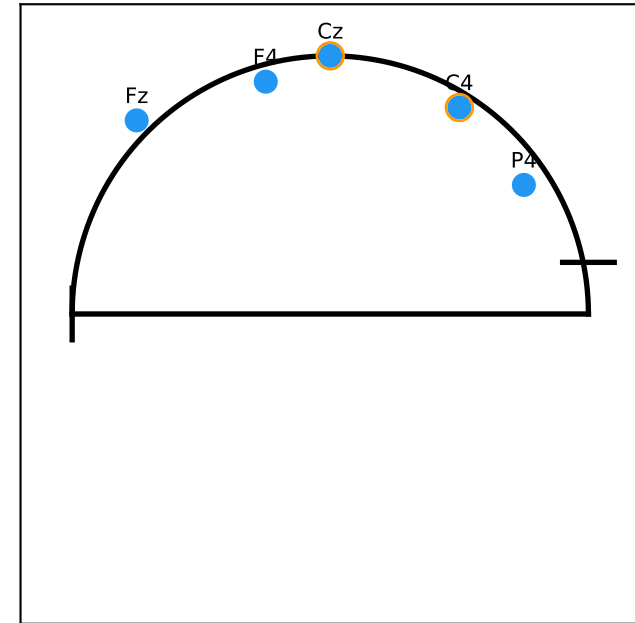
Brain Activity Topography

Subject 4, REST State

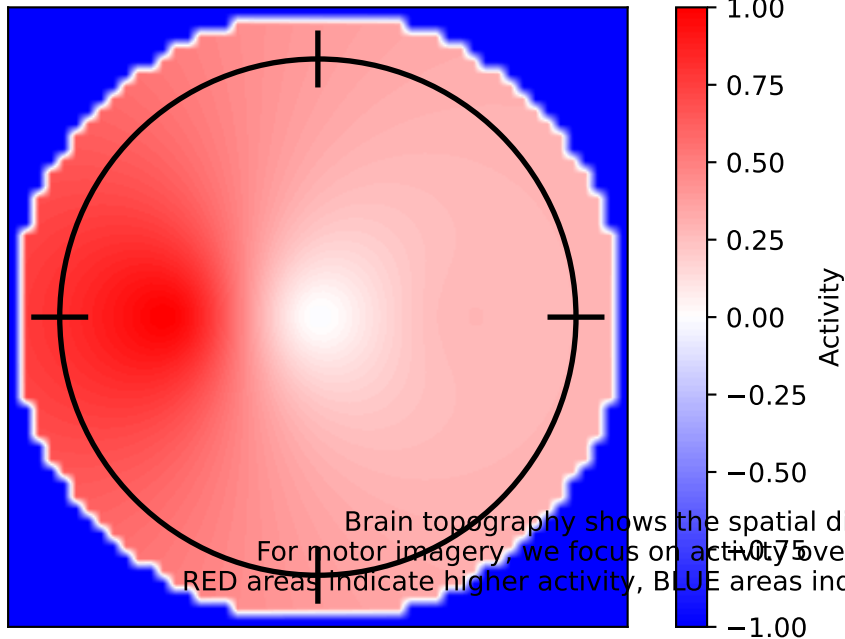
Top View



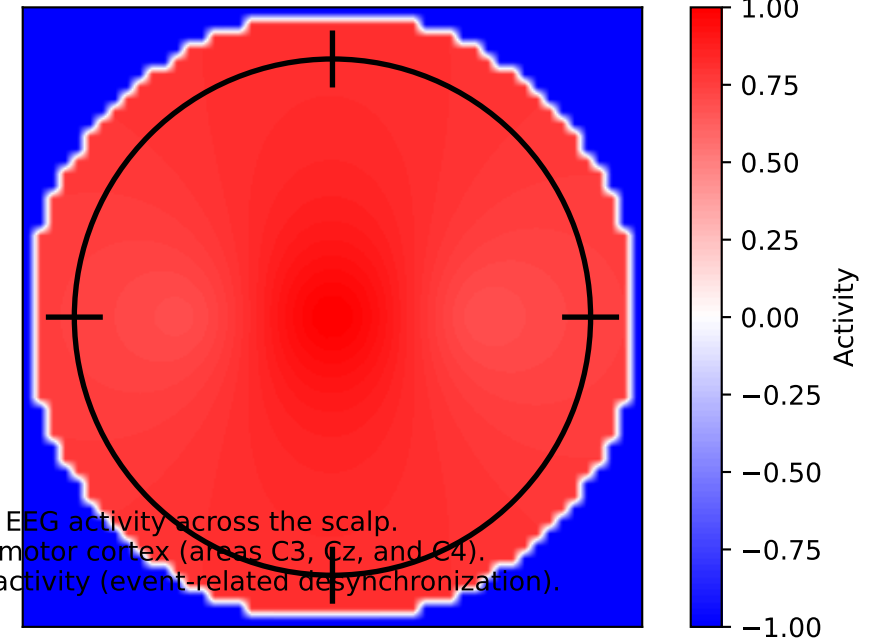
Side View



Alpha Band (8-13 Hz)



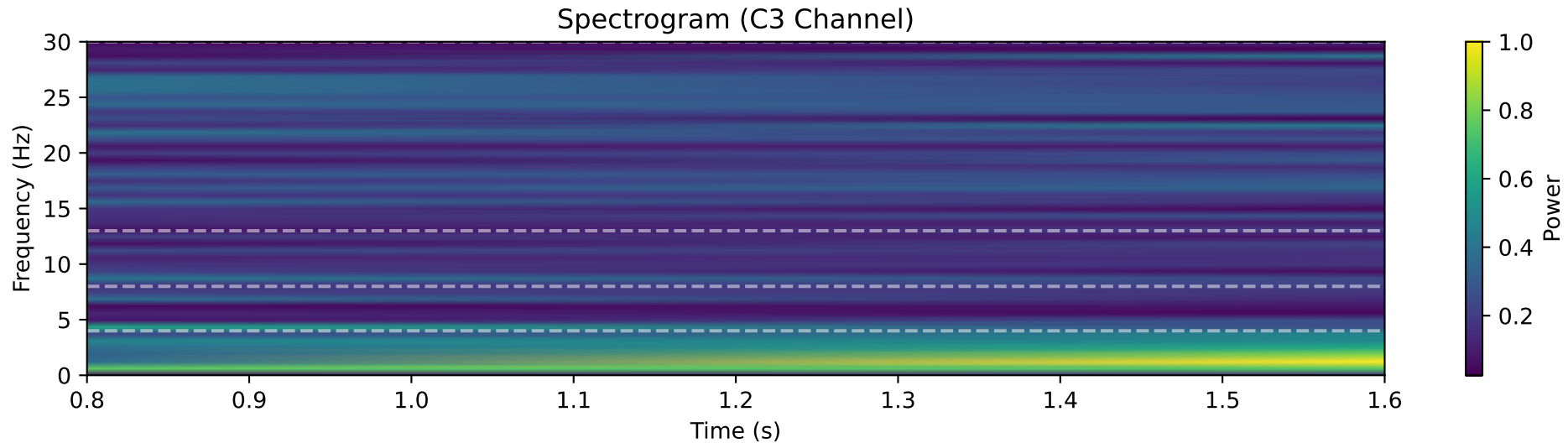
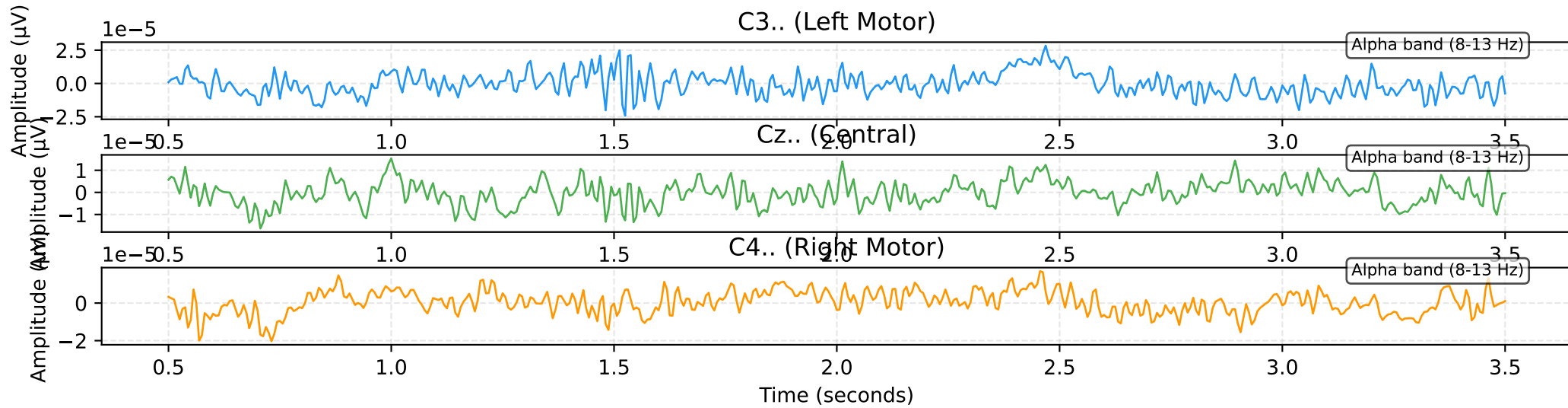
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Mental Command: LEFT

LEFT HAND IMAGERY: Event-Related Desynchronization (ERD) in right motor cortex (C4).

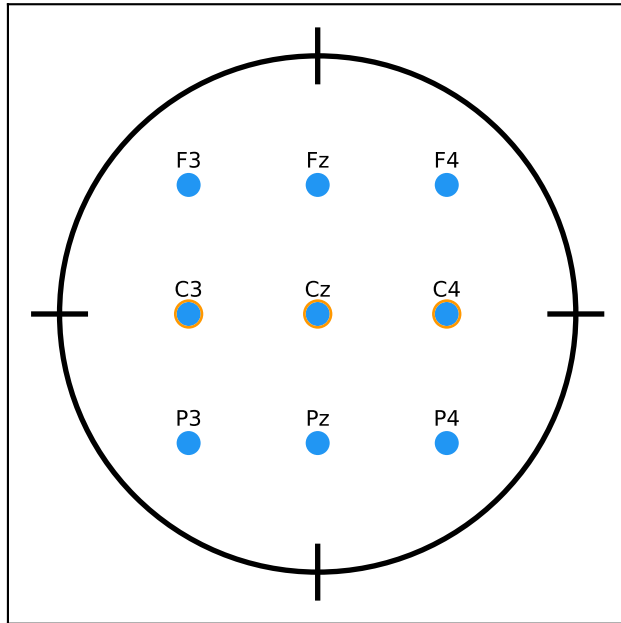
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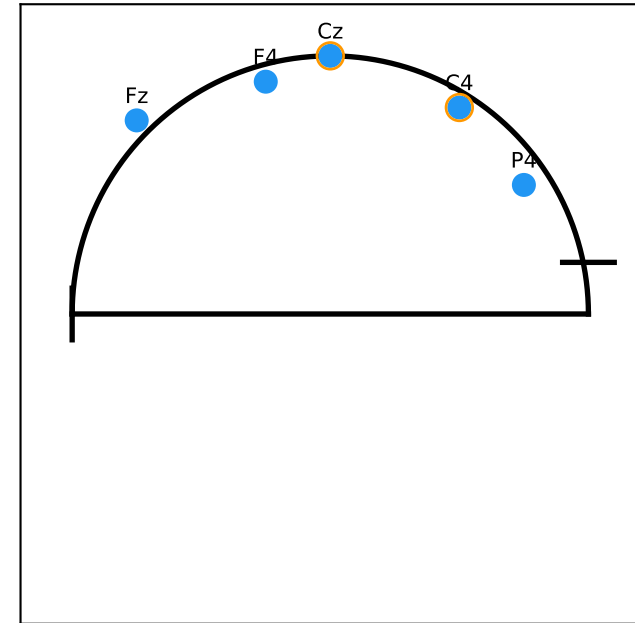
Brain Activity Topography

Subject 4, LEFT State

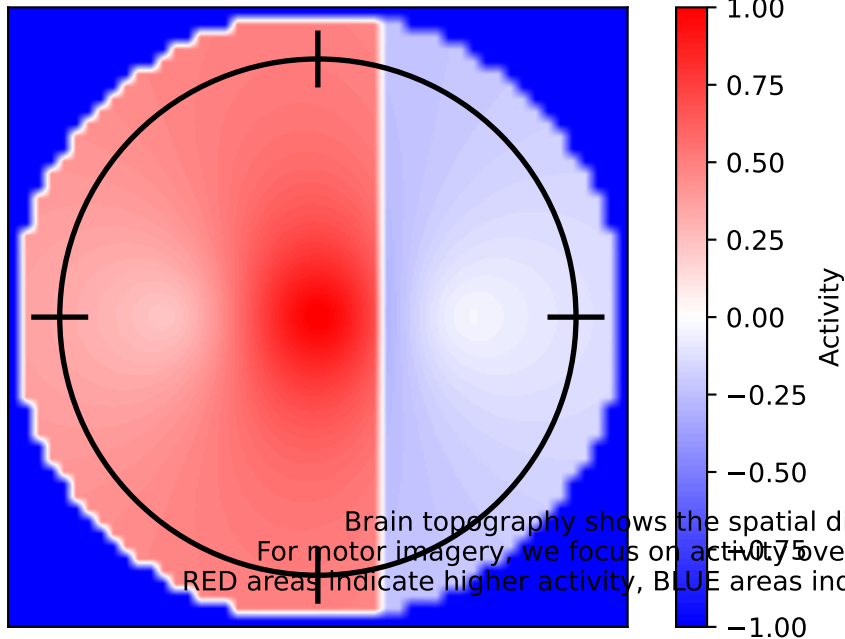
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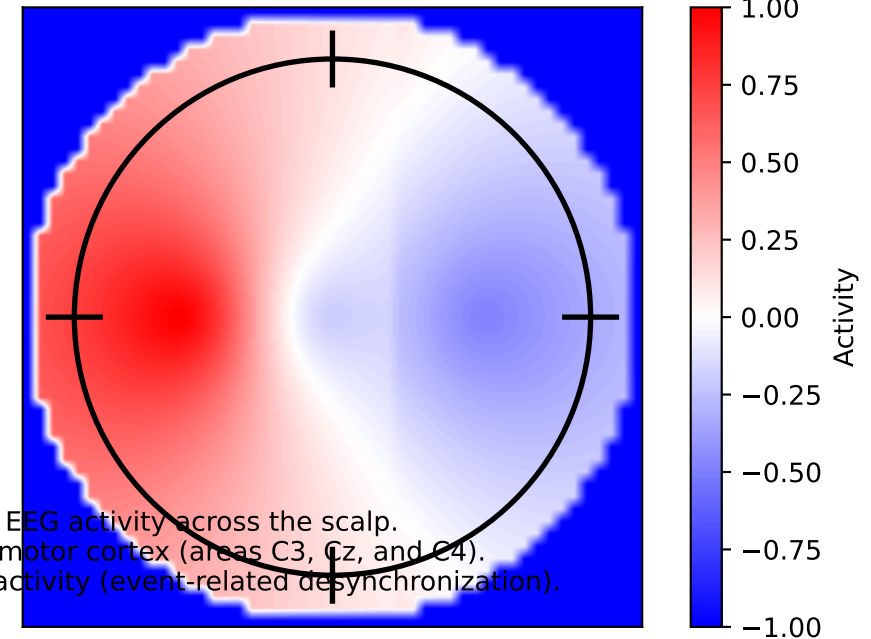
Side View



Alpha Band (8-13 Hz)



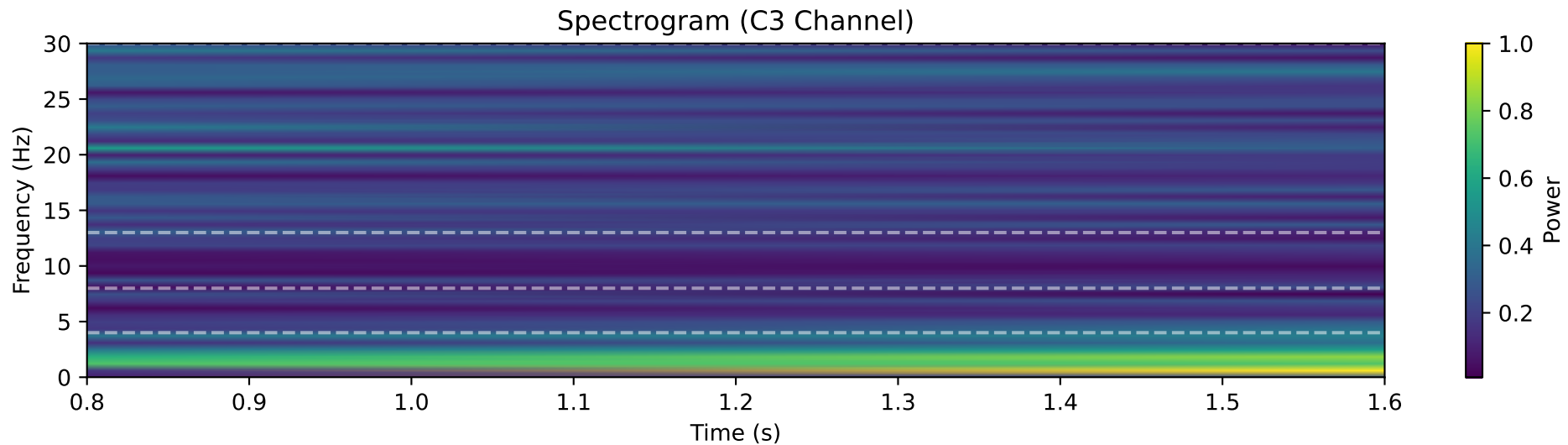
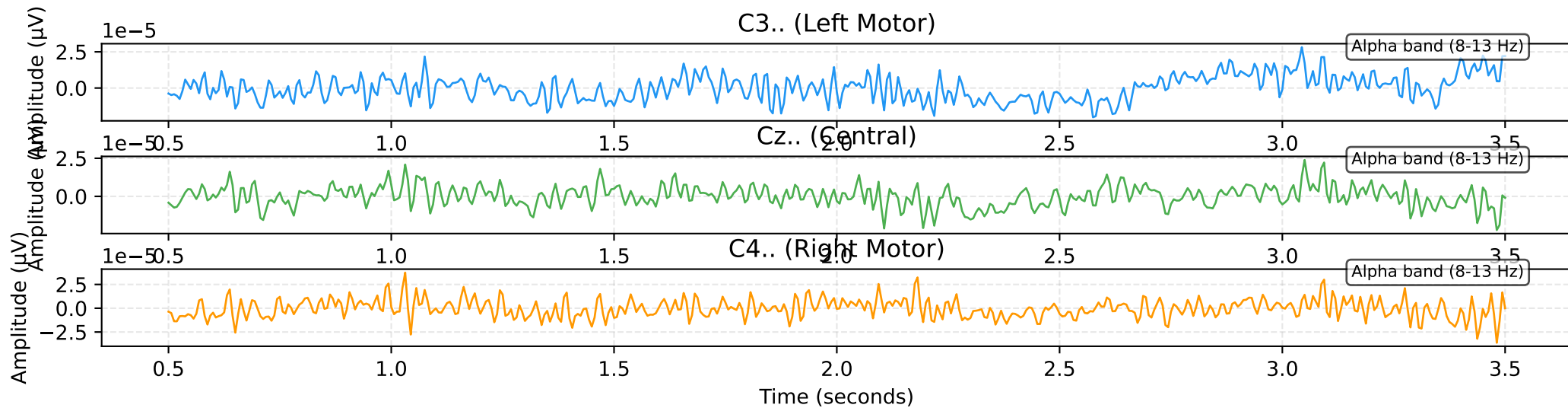
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Brain-Computer Interface: Motor Imagery Analysis

EEG Analysis - Subject 4, RIGHT State



Mental Command: RIGHT

RIGHT HAND IMAGERY: Event-Related Desynchronization (ERD) in left motor cortex (C3).

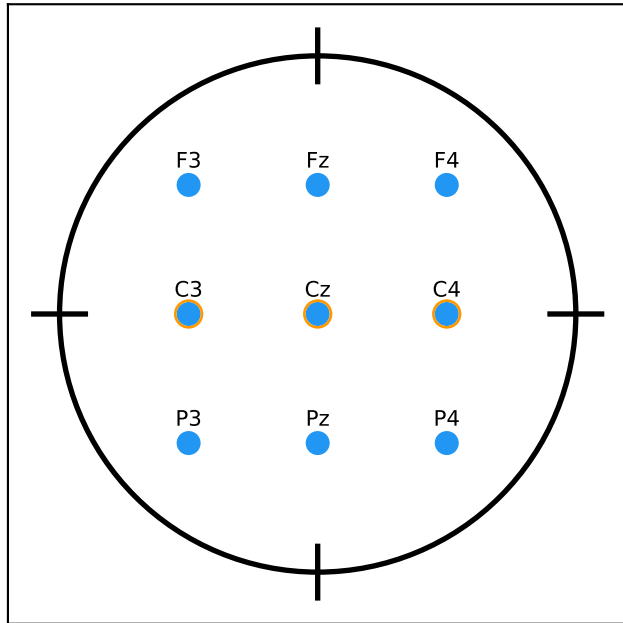
EEG Motor Imagery Patterns:

- REST: Strong alpha (10Hz) rhythms in all channels
 - LEFT Hand: ERD in right motor cortex (C4)
 - RIGHT Hand: ERD in left motor cortex (C3)

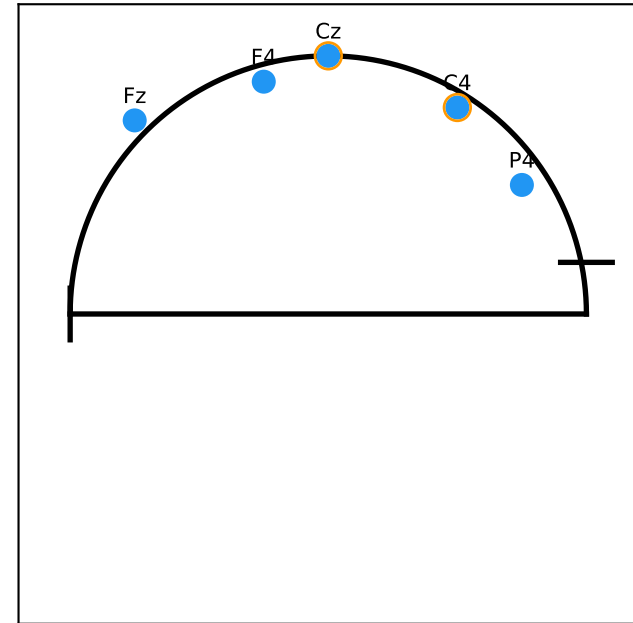
Brain Activity Topography

Subject 4, RIGHT State

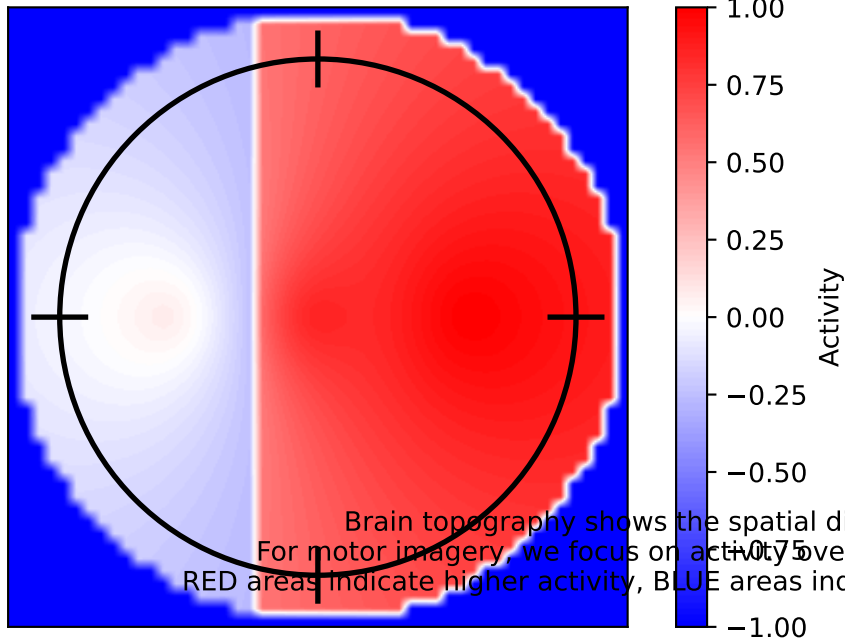
Top View



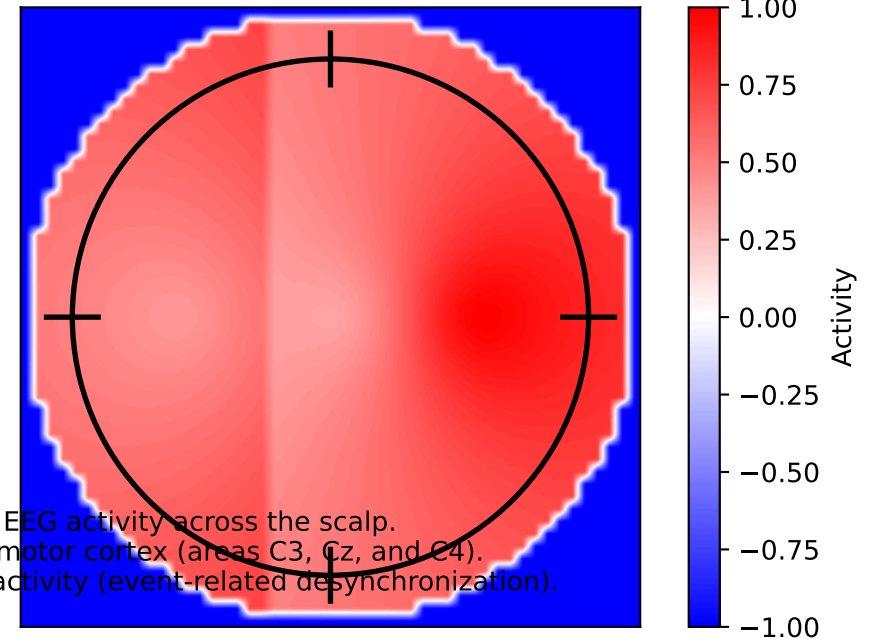
Side View



Alpha Band (8-13 Hz)



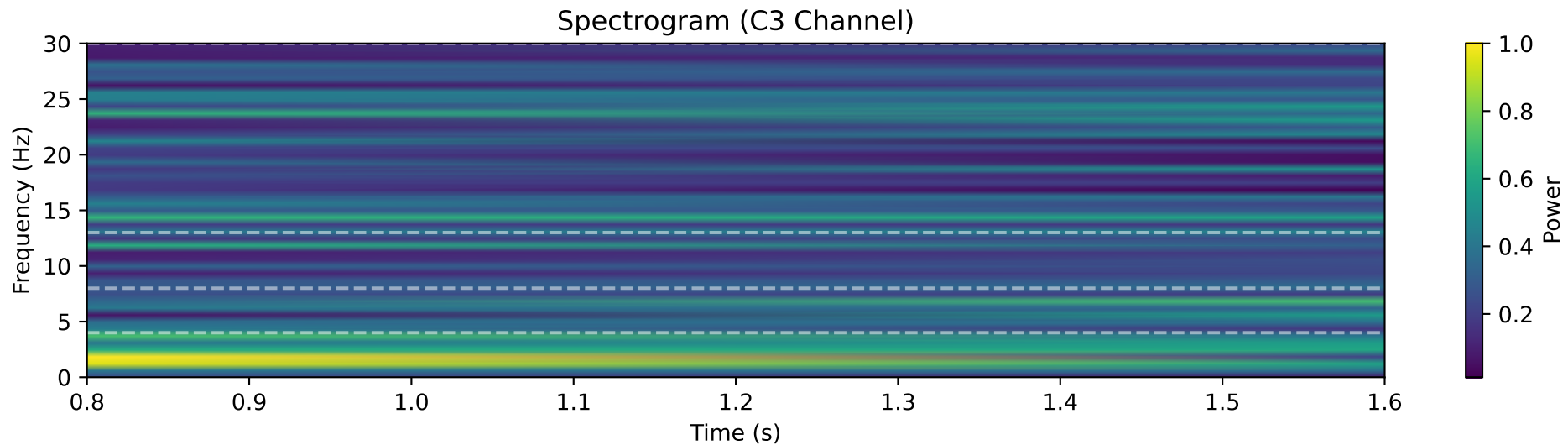
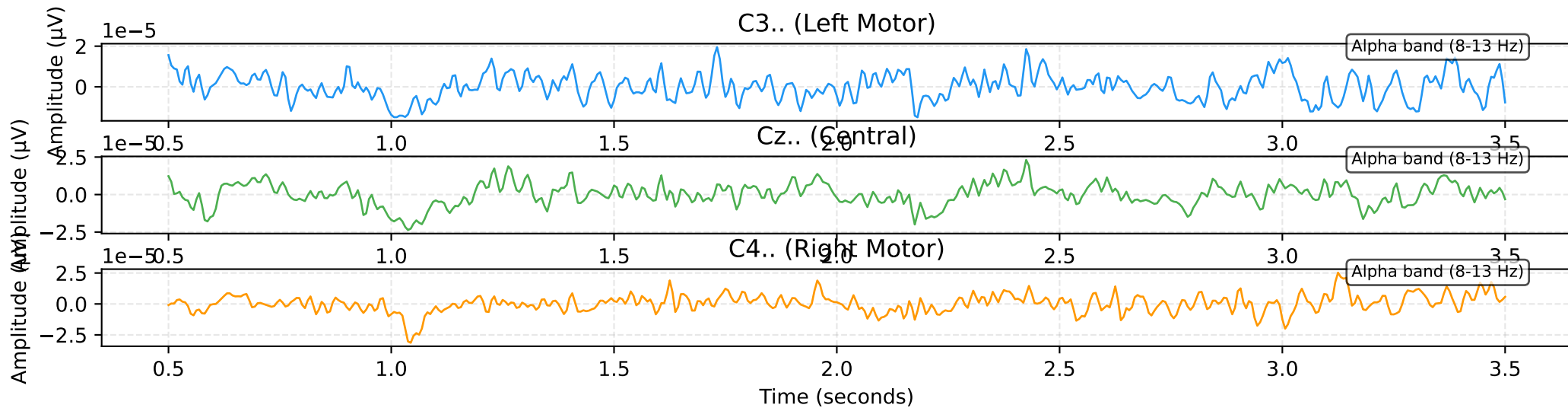
Beta Band (13-30 Hz)



Brain topography shows the spatial distribution of EEG activity across the scalp. For motor imagery, we focus on activity over the sensorimotor cortex (areas C3, Cz, and C4). RED areas indicate higher activity, BLUE areas indicate lower activity (event-related desynchronization).

Brain-Computer Interface: Motor Imagery Analysis

EEG Analysis - Subject 5, REST State



Mental Command: REST

REST STATE: Strong alpha rhythm present in all channels.

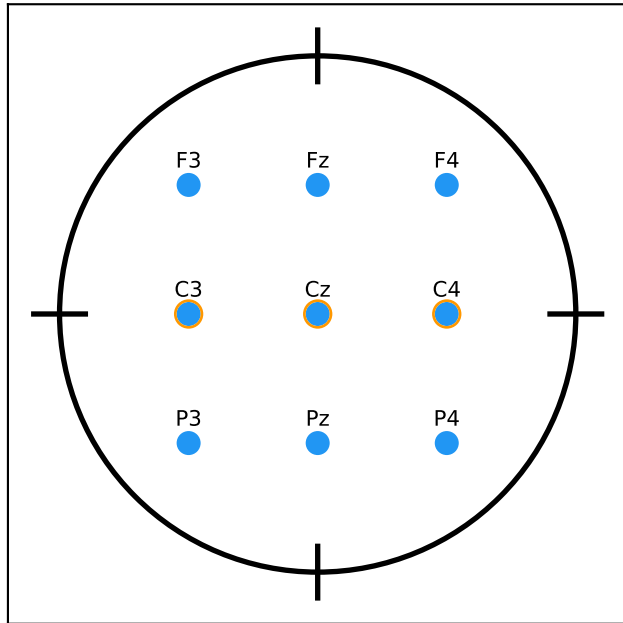
EEG Motor Imagery Patterns:

- REST: Strong alpha (10Hz) rhythms in all channels
 - LEFT Hand: ERD in right motor cortex (C4)
 - RIGHT Hand: ERD in left motor cortex (C3)

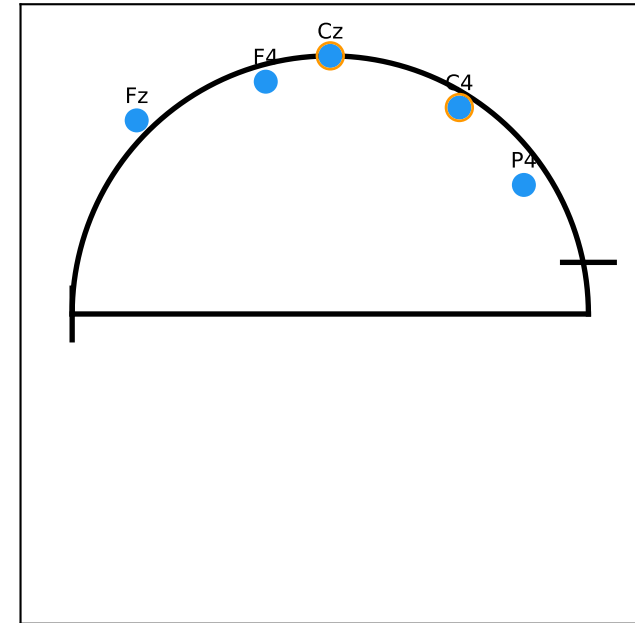
Brain Activity Topography

Subject 5, REST State

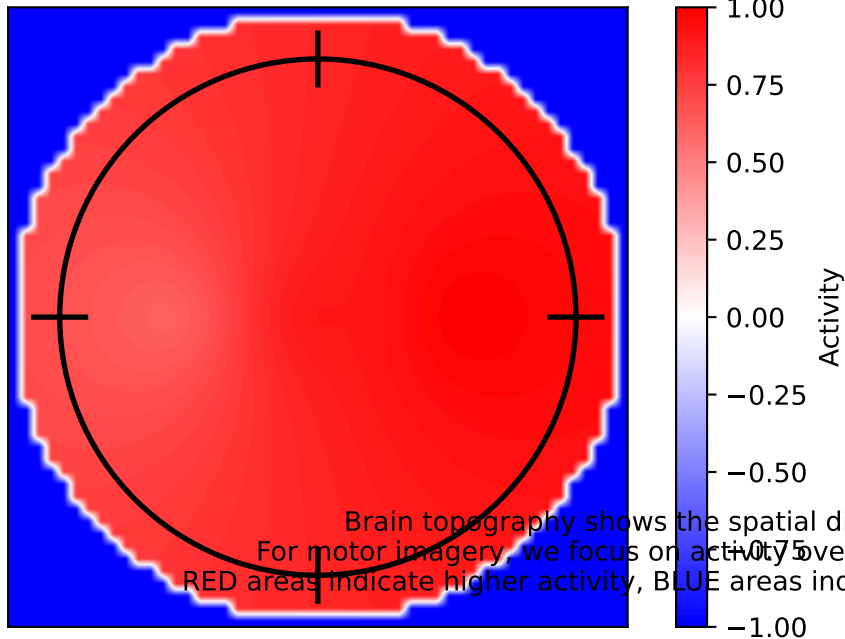
Top View



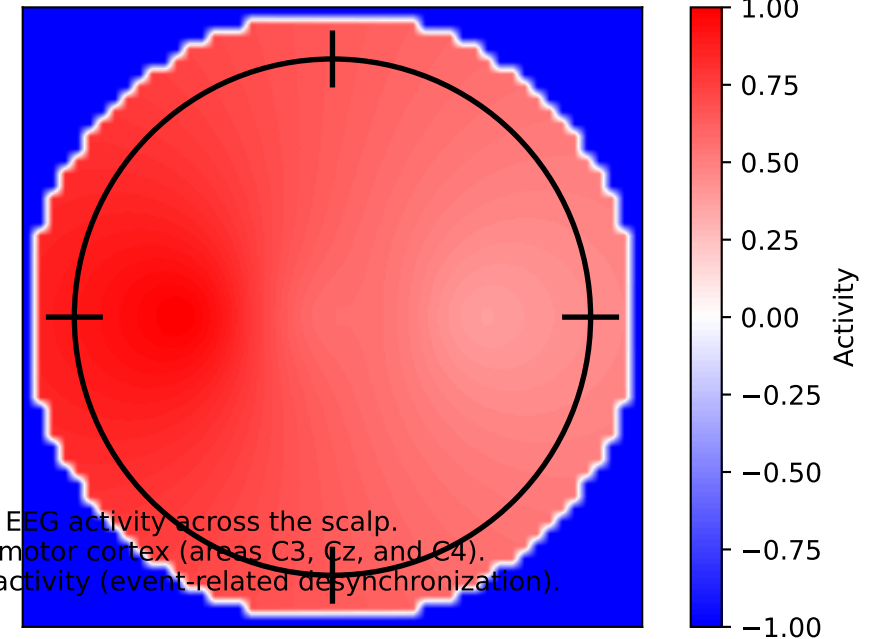
Side View



Alpha Band (8-13 Hz)



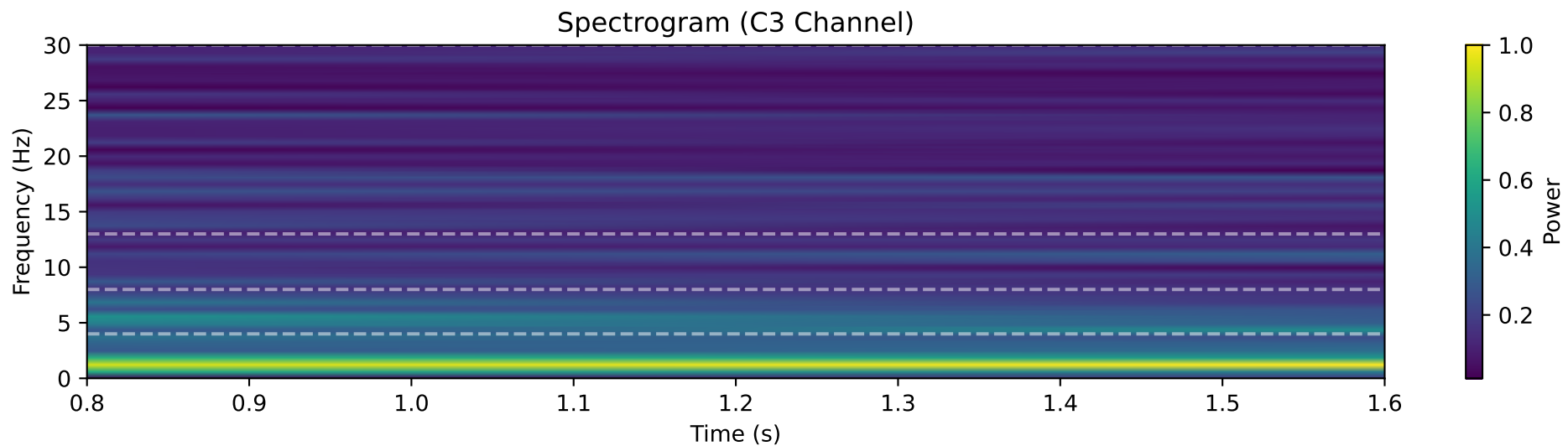
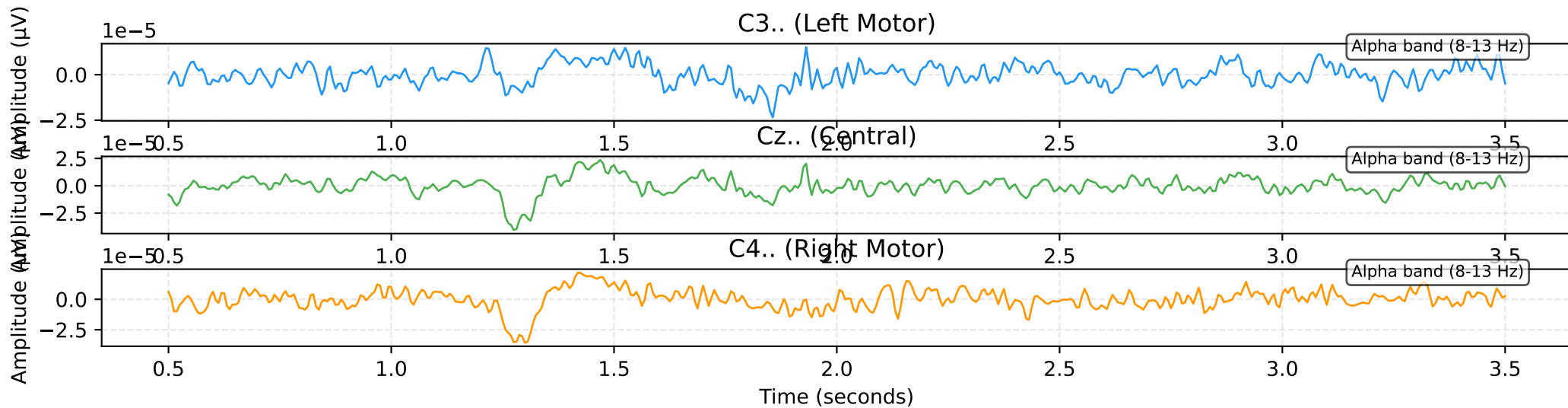
Beta Band (13-30 Hz)



Brain topography shows the spatial distribution of EEG activity across the scalp. For motor imagery, we focus on activity over the sensorimotor cortex (areas C3, Cz, and C4). RED areas indicate higher activity, BLUE areas indicate lower activity (event-related desynchronization).

Brain-Computer Interface: Motor Imagery Analysis

EEG Analysis - Subject 5, LEFT State



Mental Command: LEFT

LEFT HAND IMAGERY: Event-Related Desynchronization (ERD) in right motor cortex (C4).

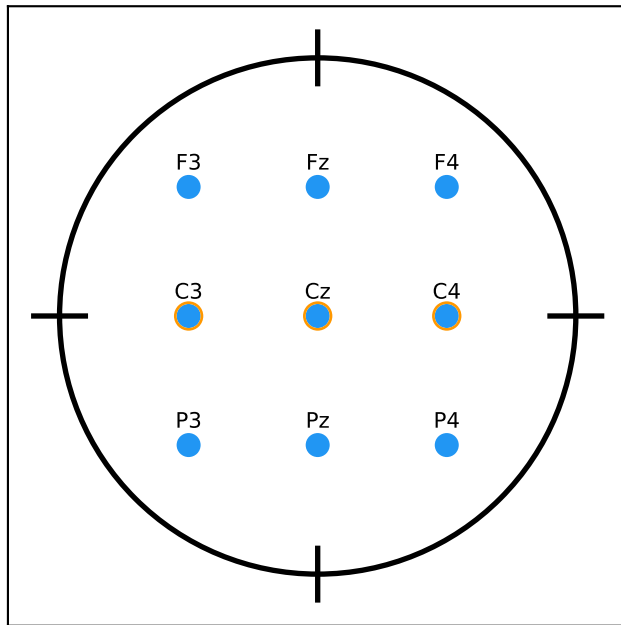
EEG Motor Imagery Patterns:

- REST: Strong alpha (10Hz) rhythms in all channels
 - LEFT Hand: ERD in right motor cortex (C4)
 - RIGHT Hand: ERD in left motor cortex (C3)

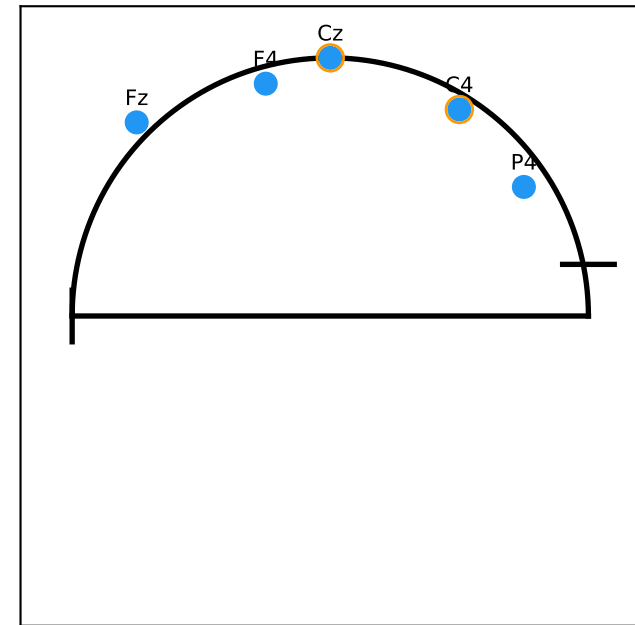
Brain Activity Topography

Subject 5, LEFT State

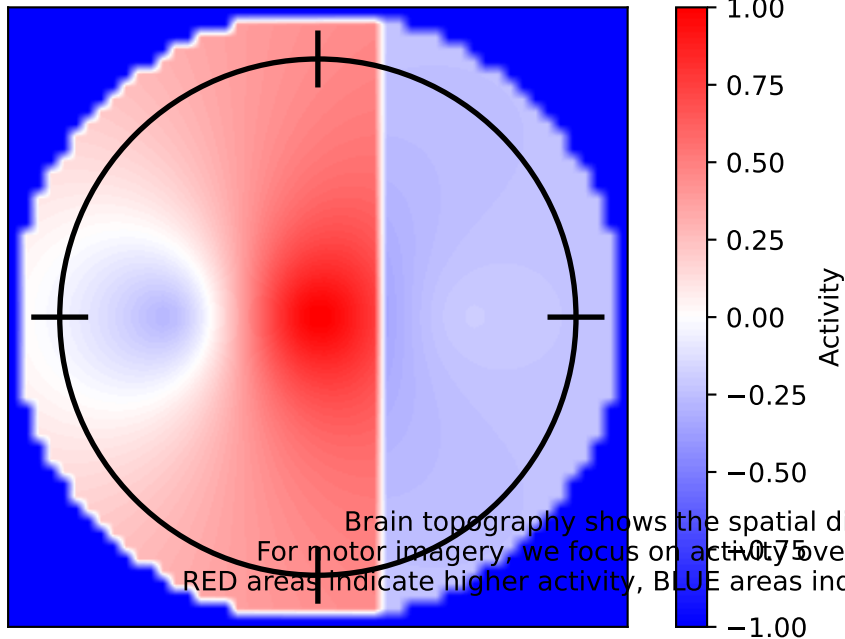
Top View



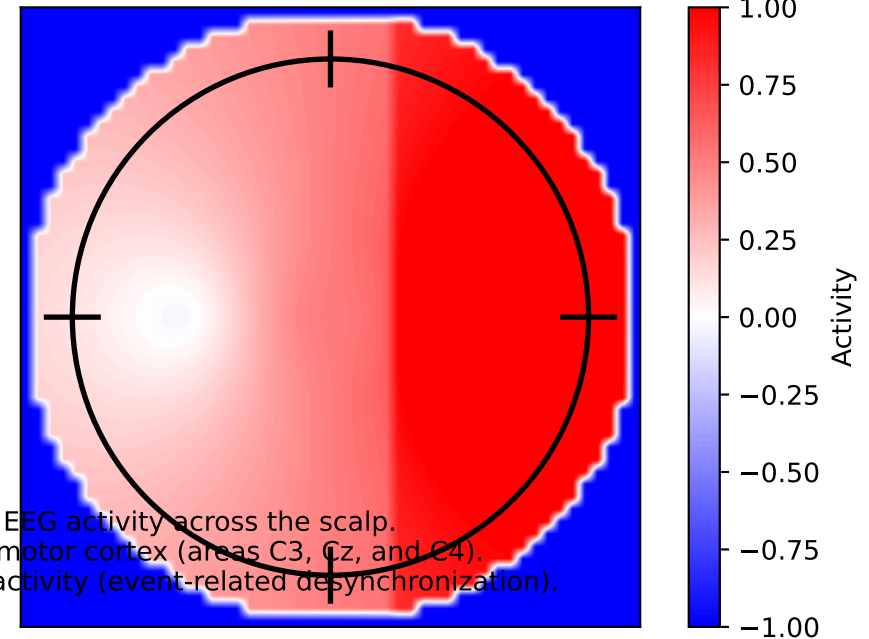
Side View



Alpha Band (8-13 Hz)



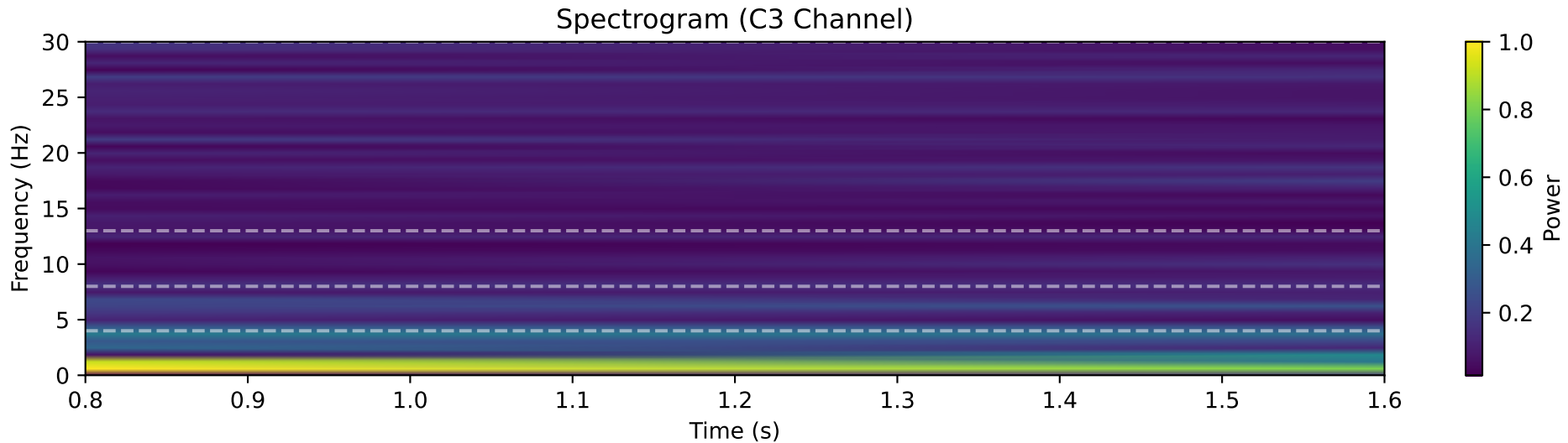
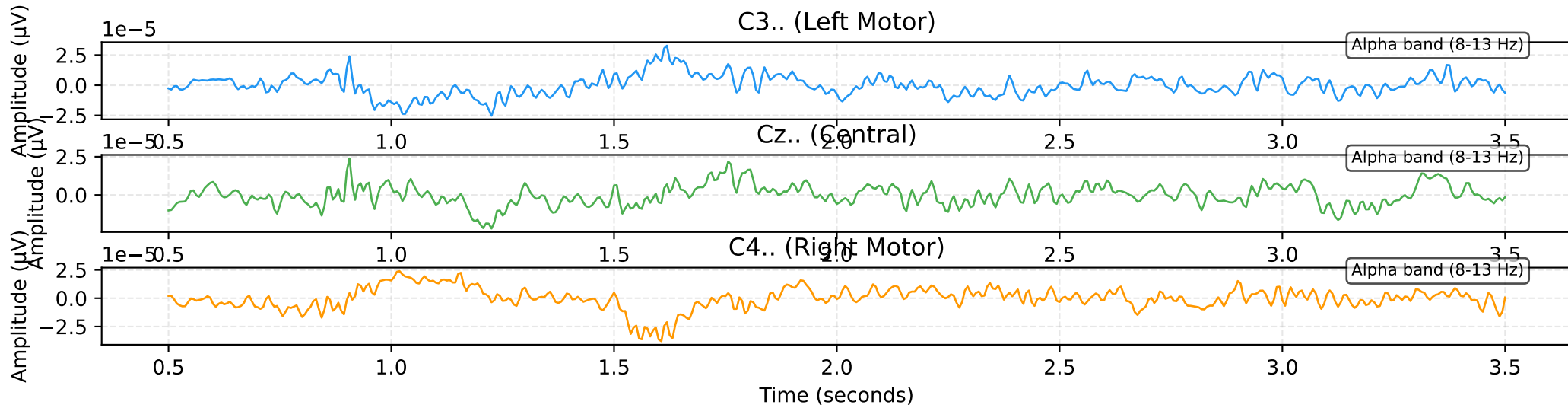
Beta Band (13-30 Hz)



Brain topography shows the spatial distribution of EEG activity across the scalp. For motor imagery, we focus on activity over the sensorimotor cortex (areas C3, Cz, and C4). RED areas indicate higher activity, BLUE areas indicate lower activity (event-related desynchronization).

Brain-Computer Interface: Motor Imagery Analysis

EEG Analysis - Subject 5, RIGHT State



Mental Command: RIGHT

RIGHT HAND IMAGERY: Event-Related Desynchronization (ERD) in left motor cortex (C3).

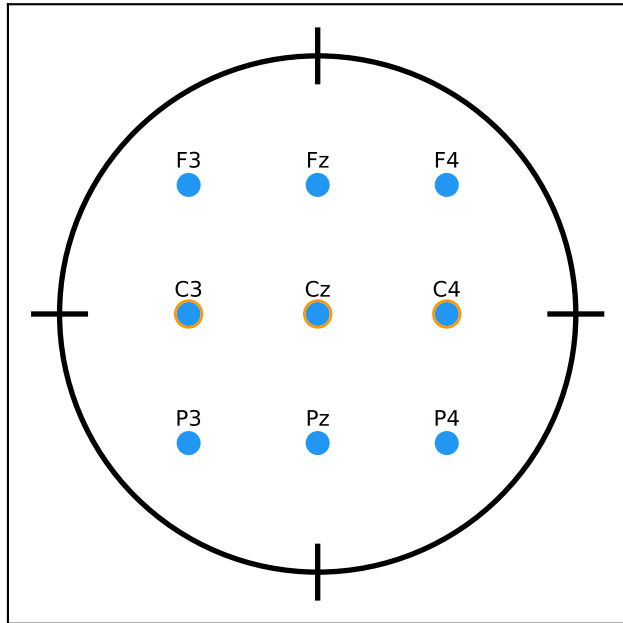
EEG Motor Imagery Patterns:

- REST: Strong alpha (10Hz) rhythms in all channels
 - LEFT Hand: ERD in right motor cortex (C4)
 - RIGHT Hand: ERD in left motor cortex (C3)

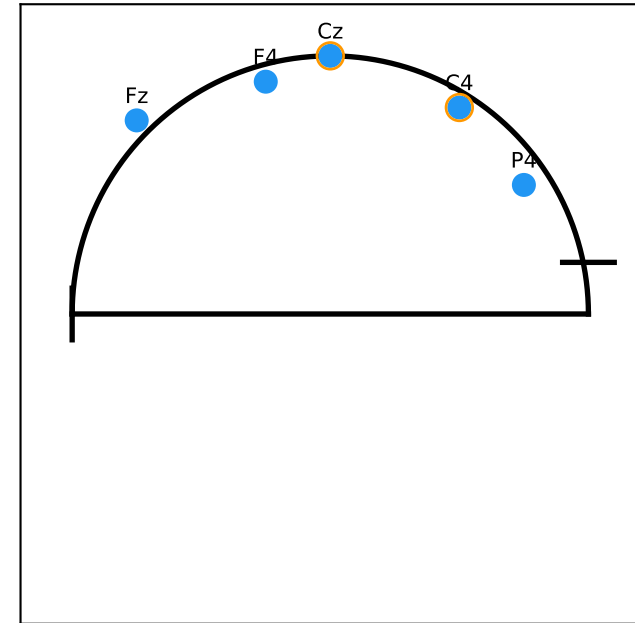
Brain Activity Topography

Subject 5, RIGHT State

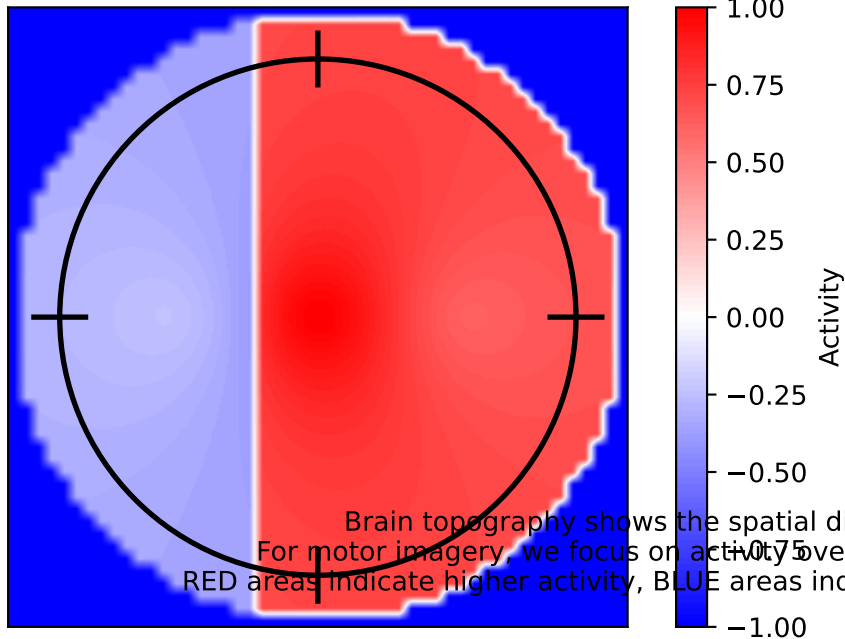
Top View



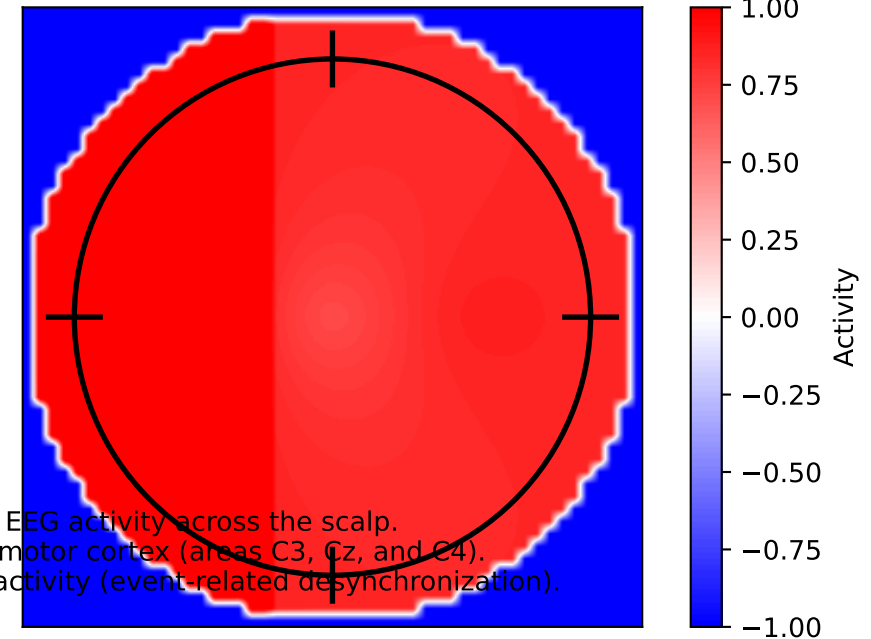
Side View



Alpha Band (8-13 Hz)



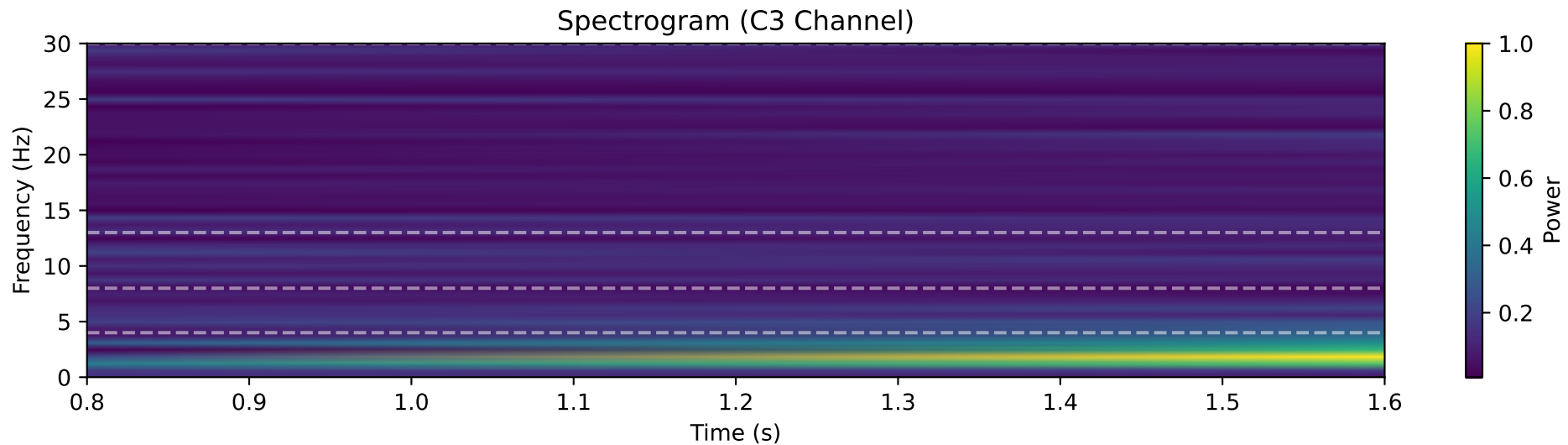
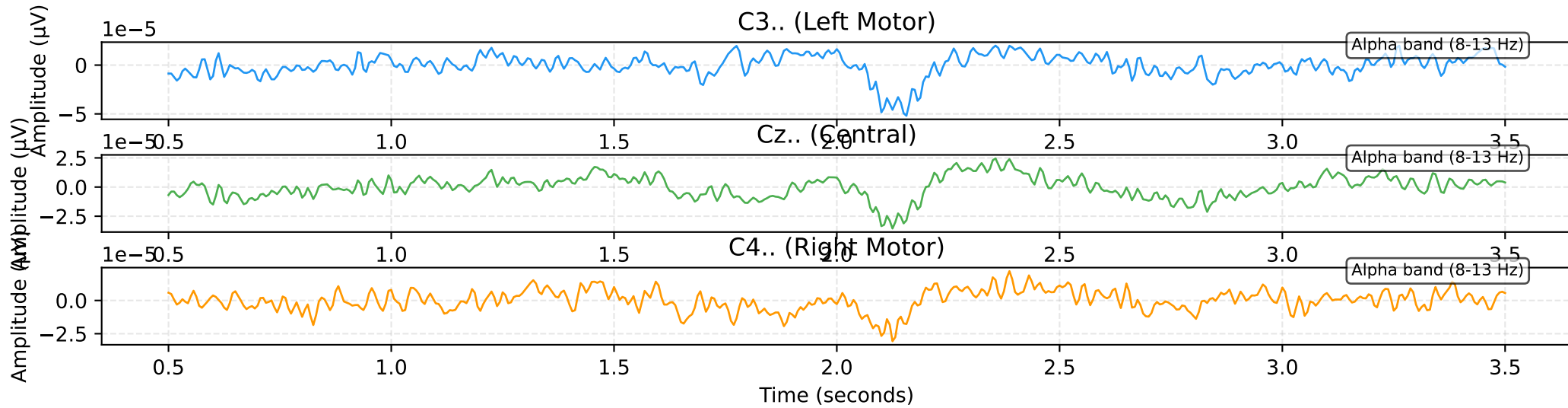
Beta Band (13-30 Hz)



Brain topography shows the spatial distribution of EEG activity across the scalp. For motor imagery, we focus on activity over the sensorimotor cortex (areas C3, Cz, and C4). RED areas indicate higher activity, BLUE areas indicate lower activity (event-related desynchronization).

Brain-Computer Interface: Motor Imagery Analysis

EEG Analysis - Subject 6, REST State



Mental Command: REST

REST STATE: Strong alpha rhythm present in all channels.

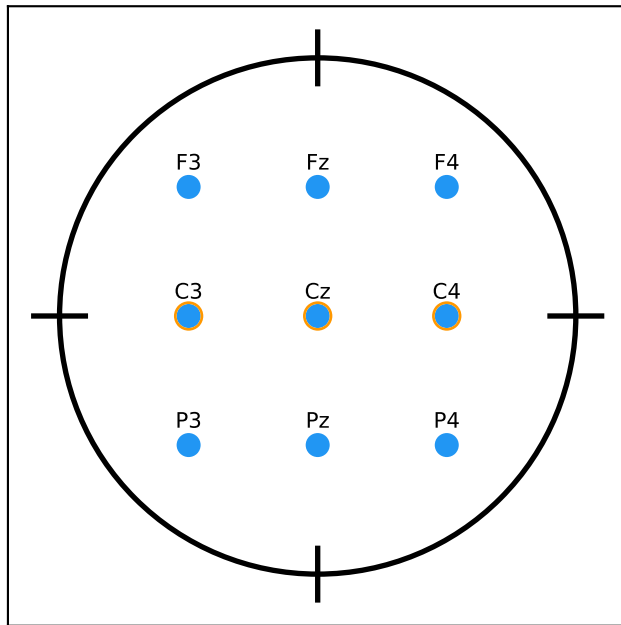
EEG Motor Imagery Patterns:

- REST: Strong alpha (10Hz) rhythms in all channels
 - LEFT Hand: ERD in right motor cortex (C4)
 - RIGHT Hand: ERD in left motor cortex (C3)

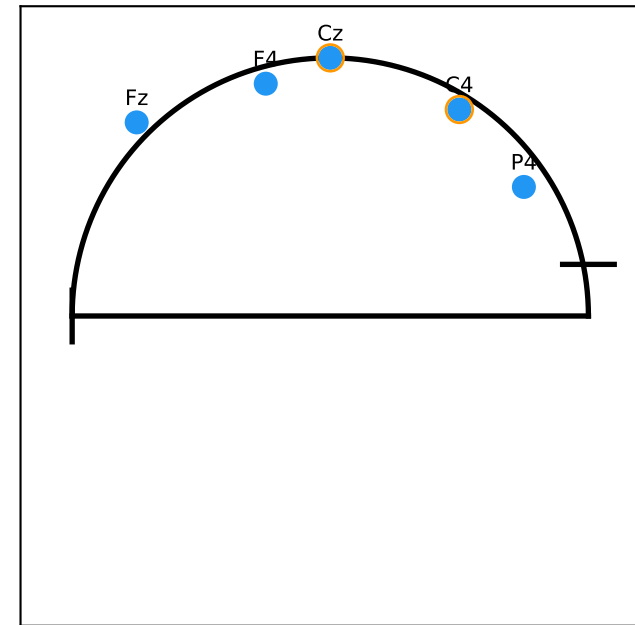
Brain Activity Topography

Subject 6, REST State

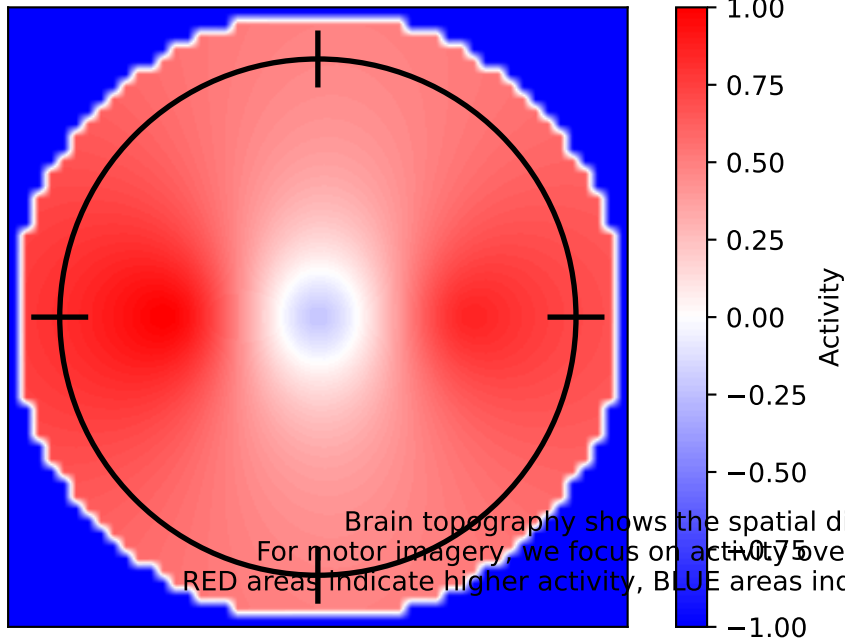
Top View



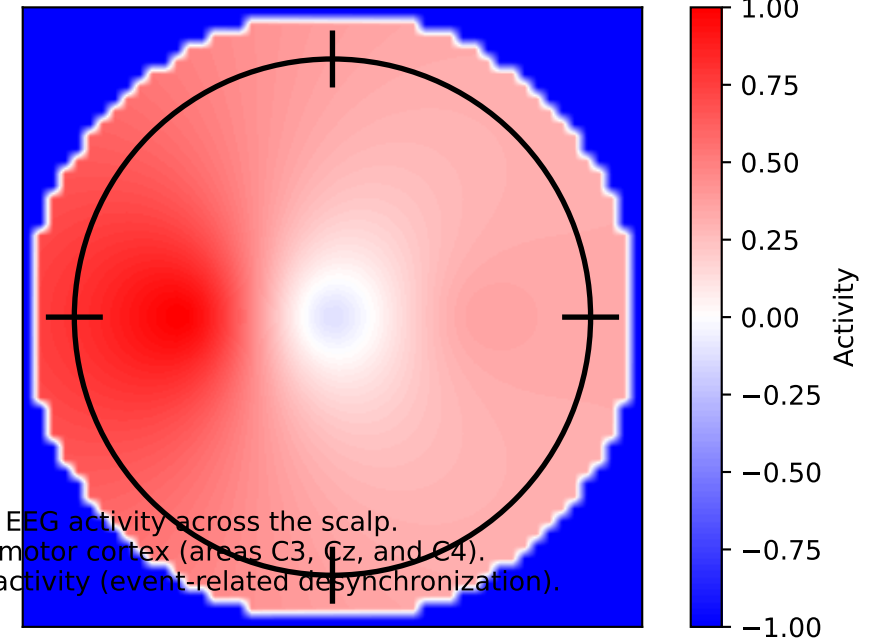
Side View



Alpha Band (8-13 Hz)



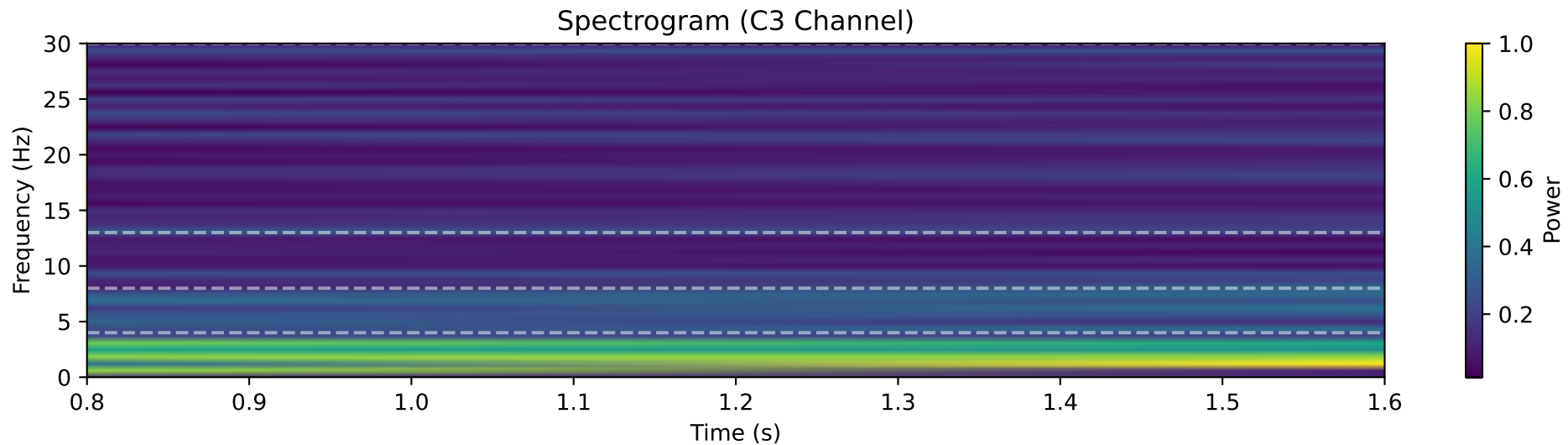
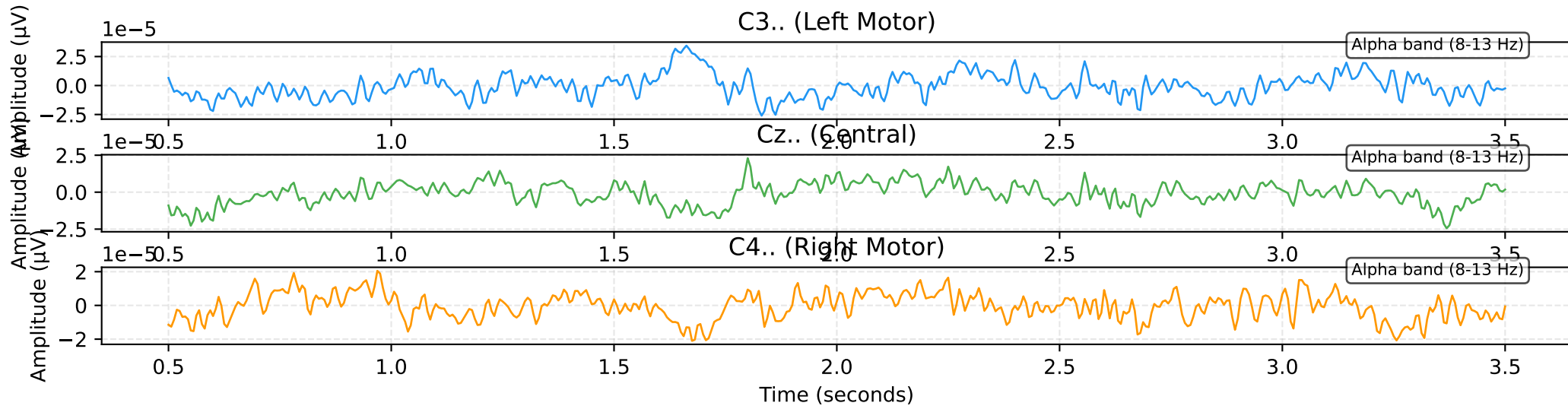
Beta Band (13-30 Hz)



Brain topography shows the spatial distribution of EEG activity across the scalp. For motor imagery, we focus on activity over the sensorimotor cortex (areas C3, Cz, and C4). RED areas indicate higher activity, BLUE areas indicate lower activity (event-related desynchronization).

Brain-Computer Interface: Motor Imagery Analysis

EEG Analysis - Subject 6, LEFT State



Mental Command: LEFT

LEFT HAND IMAGERY: Event-Related Desynchronization (ERD) in right motor cortex (C4).

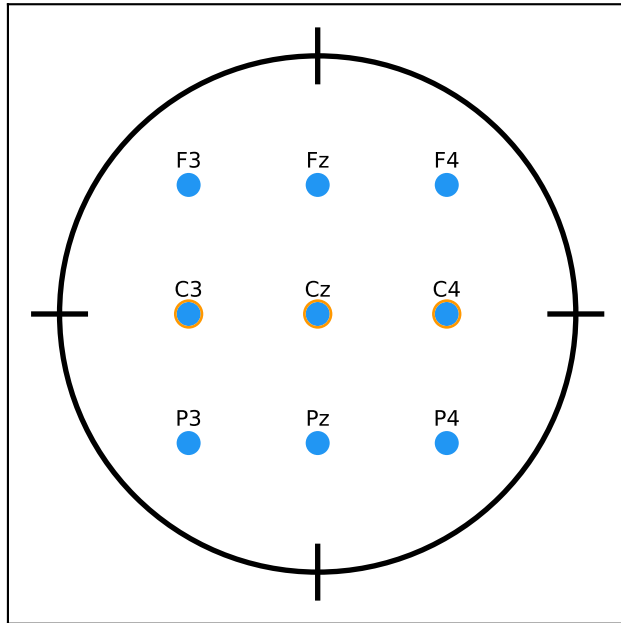
EEG Motor Imagery Patterns:

- REST: Strong alpha (10Hz) rhythms in all channels
 - LEFT Hand: ERD in right motor cortex (C4)
 - RIGHT Hand: ERD in left motor cortex (C3)

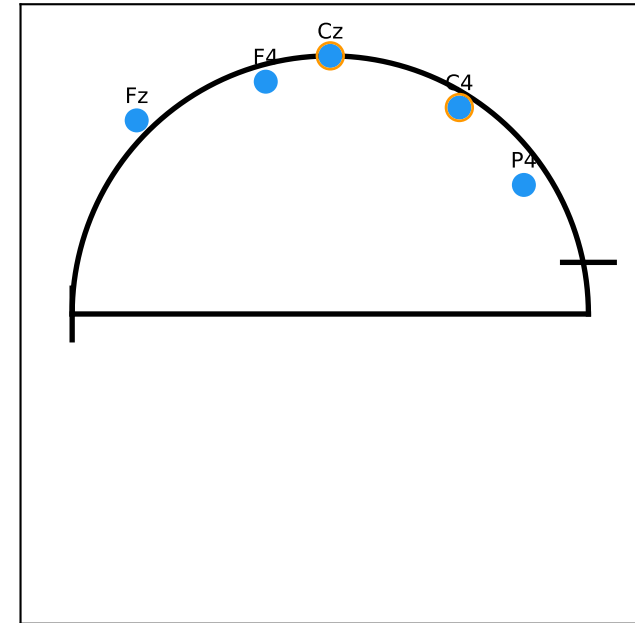
Brain Activity Topography

Subject 6, LEFT State

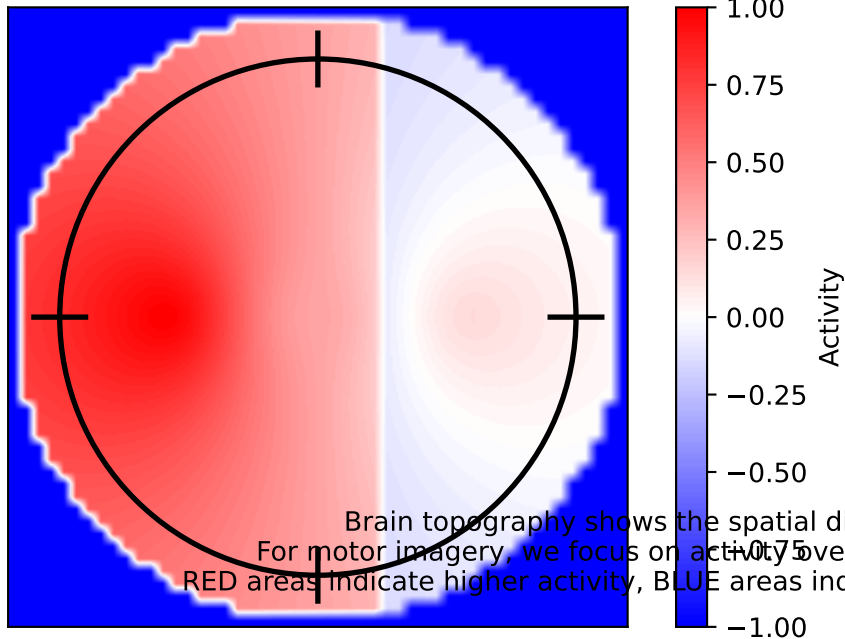
Top View



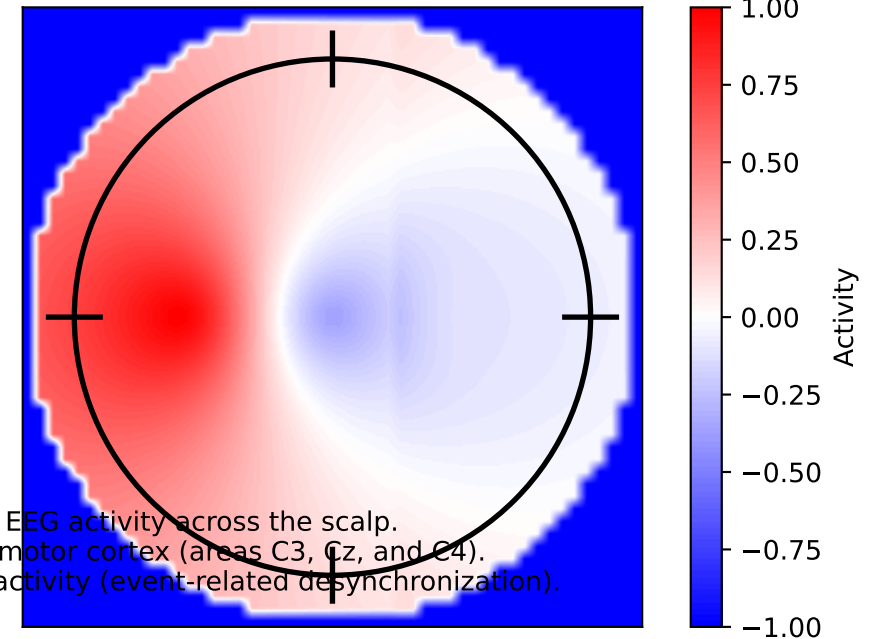
Side View



Alpha Band (8-13 Hz)



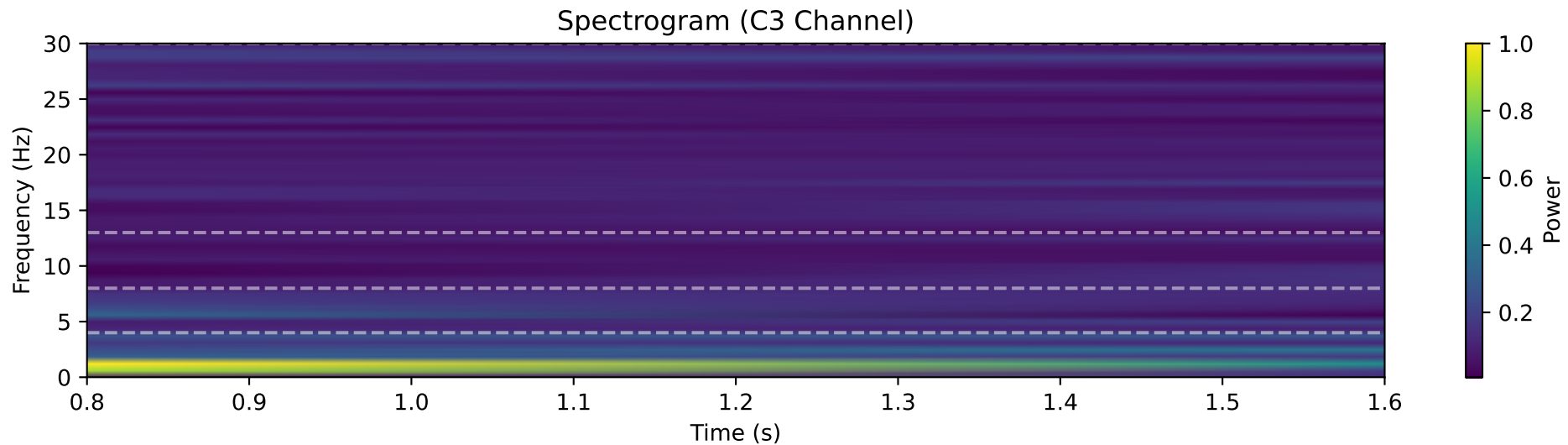
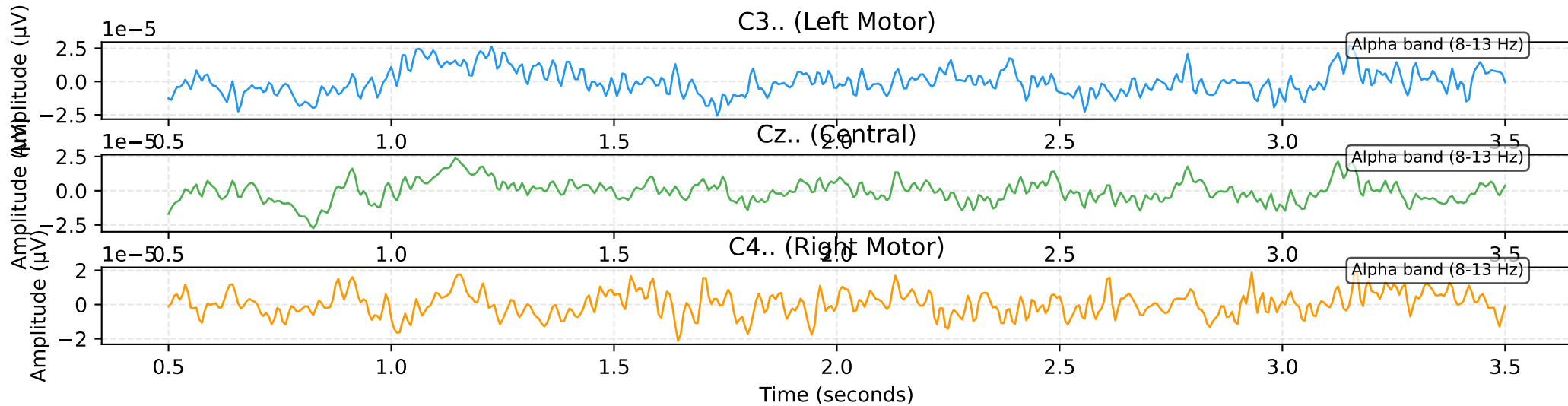
Beta Band (13-30 Hz)



Brain topography shows the spatial distribution of EEG activity across the scalp. For motor imagery, we focus on activity over the sensorimotor cortex (areas C3, Cz, and C4). RED areas indicate higher activity, BLUE areas indicate lower activity (event-related desynchronization).

Brain-Computer Interface: Motor Imagery Analysis

EEG Analysis - Subject 6, RIGHT State



Mental Command: RIGHT

RIGHT HAND IMAGERY: Event-Related Desynchronization (ERD) in left motor cortex (C3).

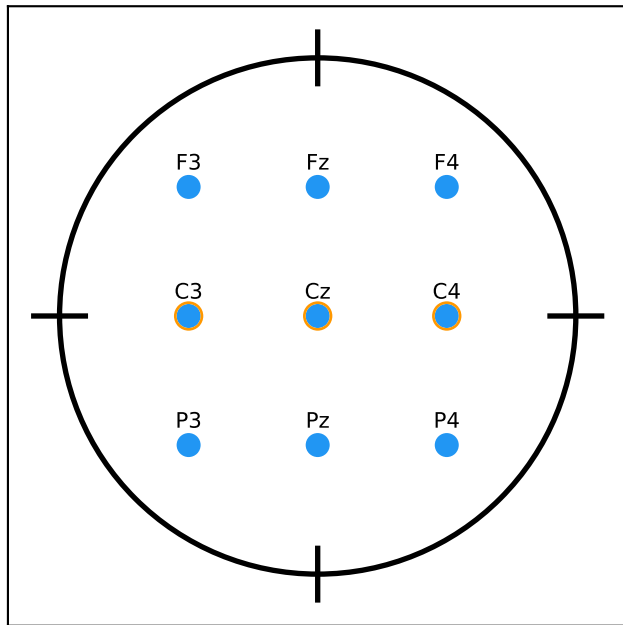
EEG Motor Imagery Patterns:

- REST: Strong alpha (10Hz) rhythms in all channels
 - LEFT Hand: ERD in right motor cortex (C4)
 - RIGHT Hand: ERD in left motor cortex (C3)

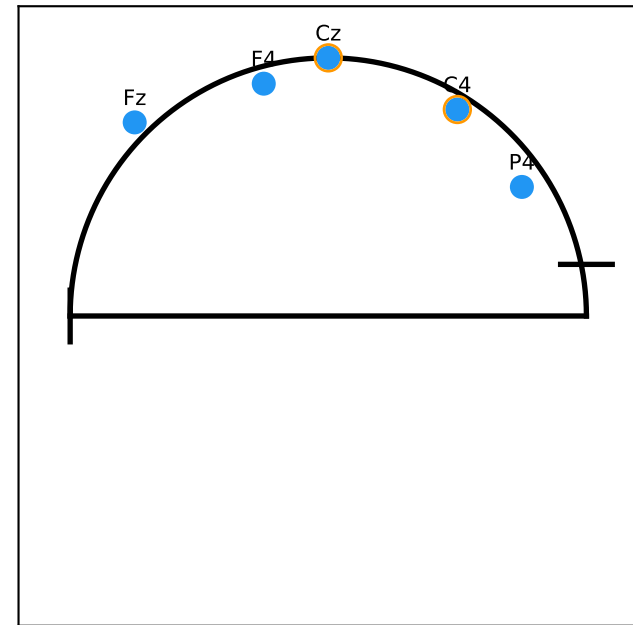
Brain Activity Topography

Subject 6, RIGHT State

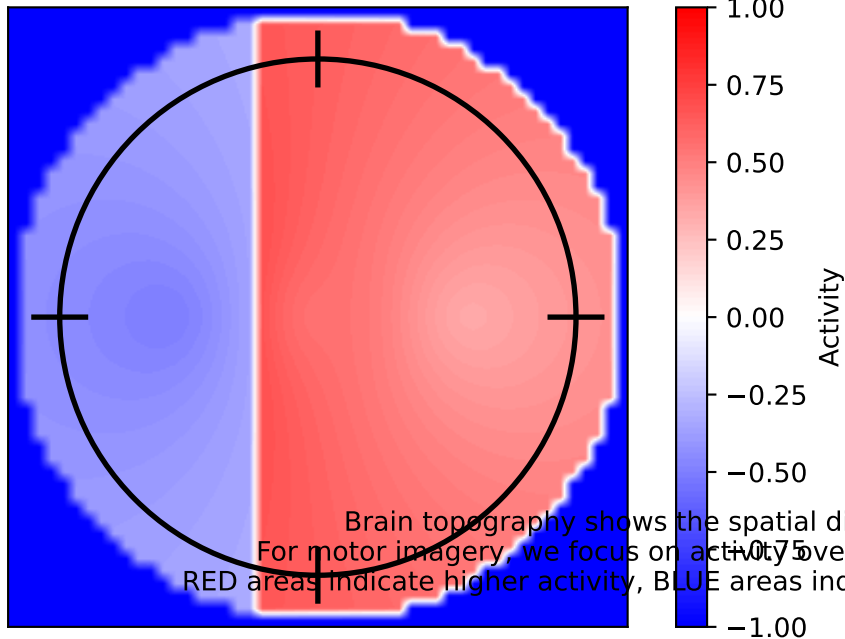
Top View



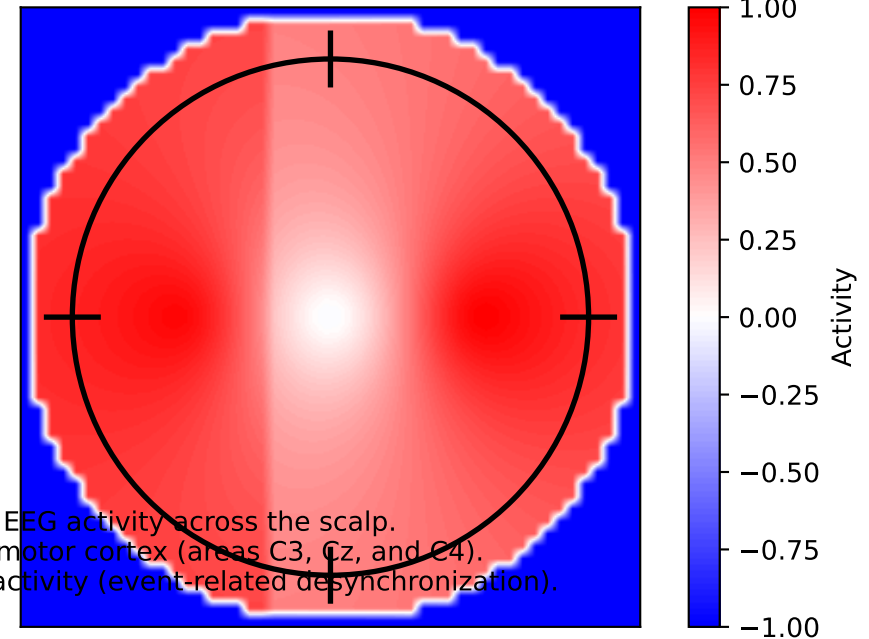
Side View



Alpha Band (8-13 Hz)



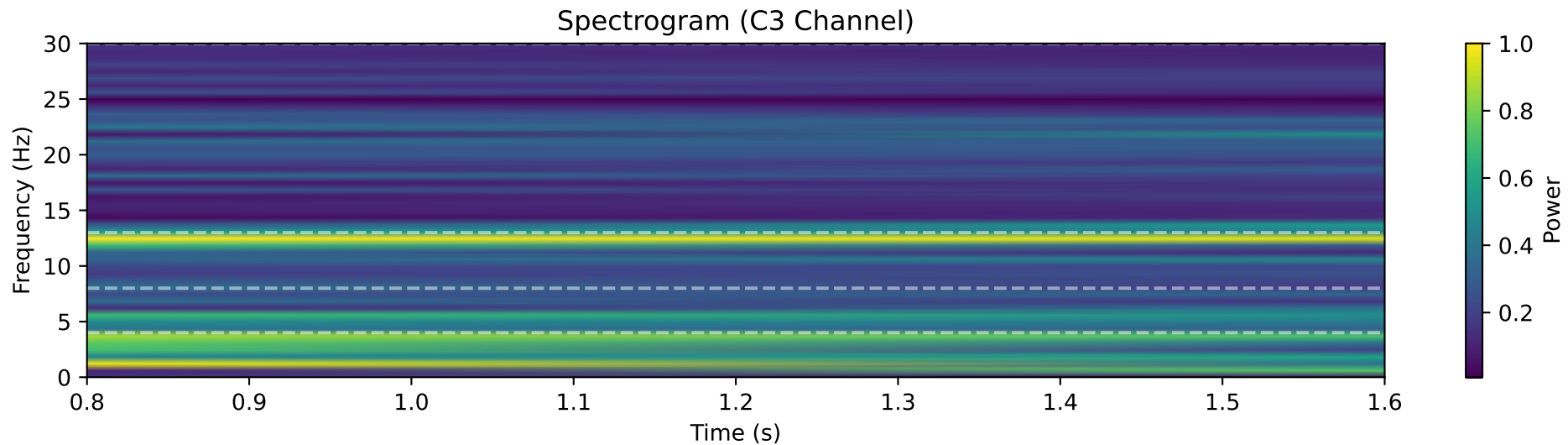
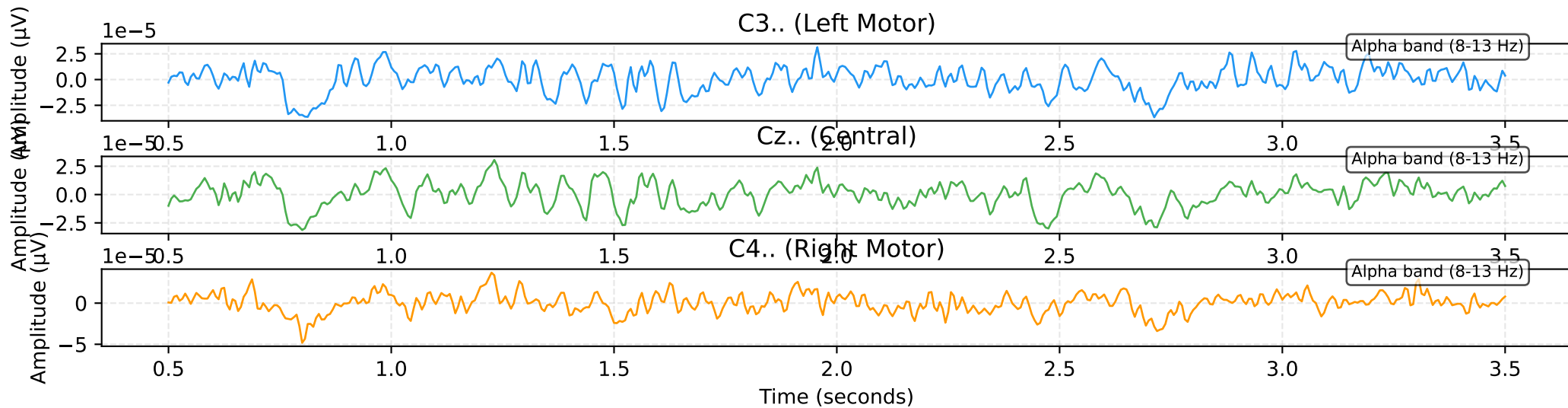
Beta Band (13-30 Hz)



Brain topography shows the spatial distribution of EEG activity across the scalp. For motor imagery, we focus on activity over the sensorimotor cortex (areas C3, Cz, and C4). RED areas indicate higher activity, BLUE areas indicate lower activity (event-related desynchronization).

Brain-Computer Interface: Motor Imagery Analysis

EEG Analysis - Subject 7, REST State



Mental Command: REST

REST STATE: Strong alpha rhythm present in all channels.

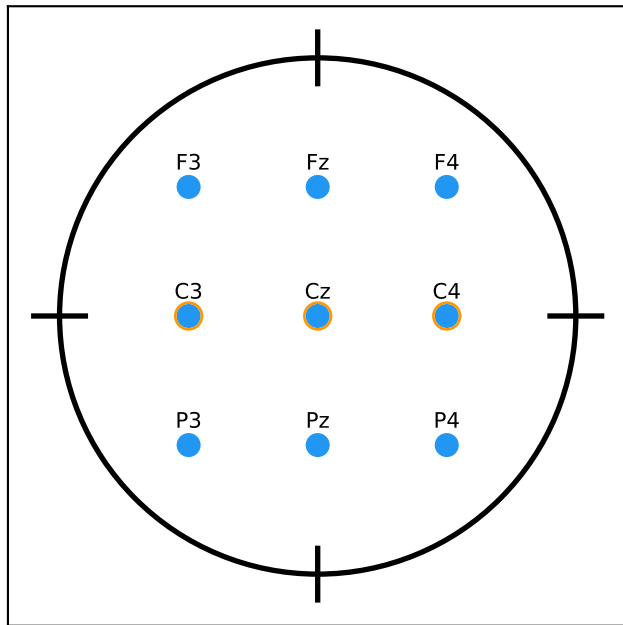
EEG Motor Imagery Patterns:

- REST: Strong alpha (10Hz) rhythms in all channels
 - LEFT Hand: ERD in right motor cortex (C4)
 - RIGHT Hand: ERD in left motor cortex (C3)

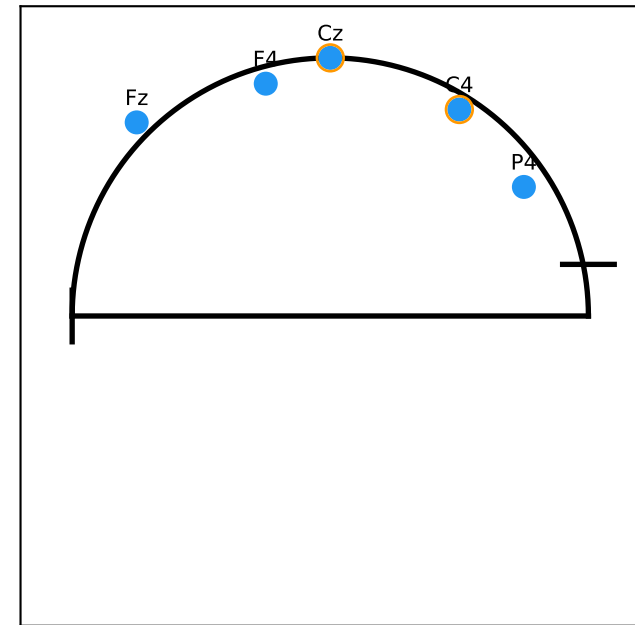
Brain Activity Topography

Subject 7, REST State

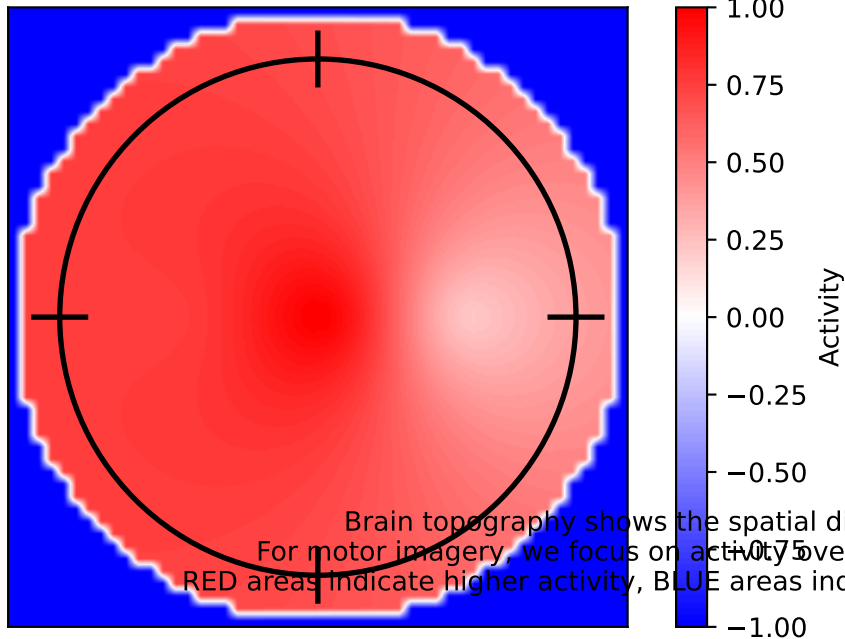
Top View



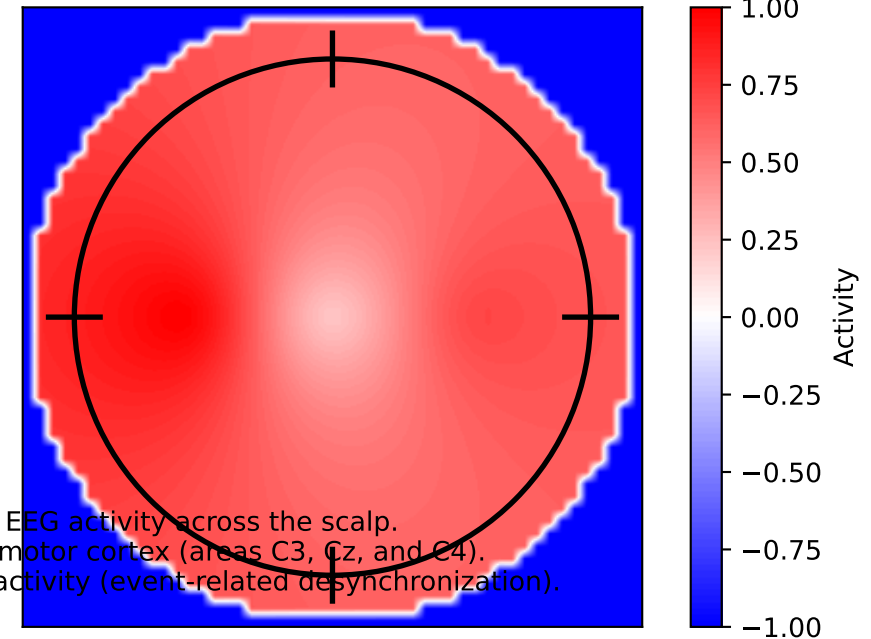
Side View



Alpha Band (8-13 Hz)



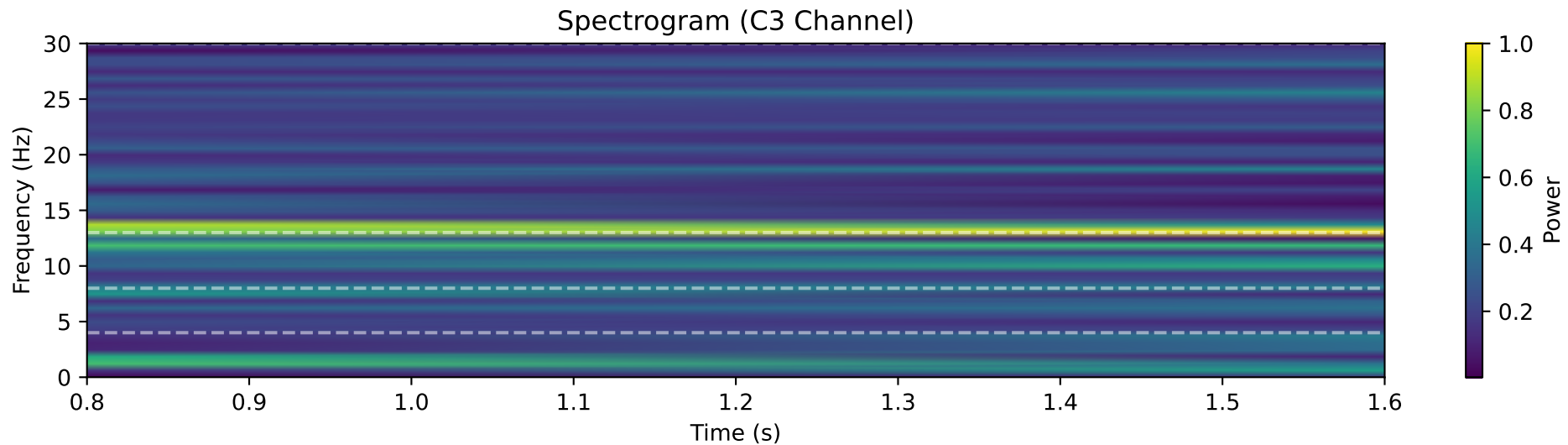
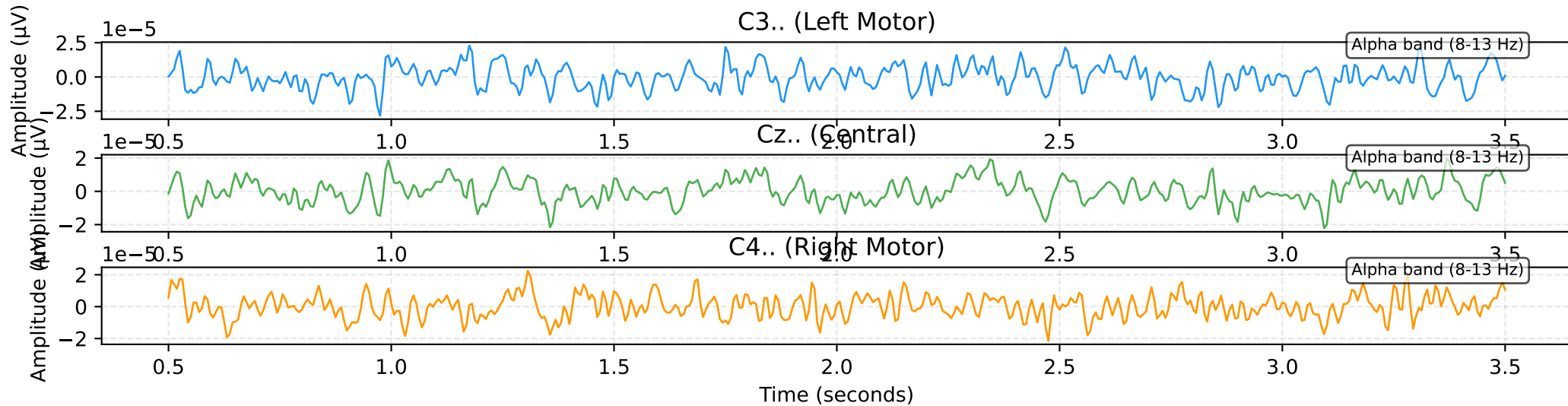
Beta Band (13-30 Hz)



Brain topography shows the spatial distribution of EEG activity across the scalp. For motor imagery, we focus on activity over the sensorimotor cortex (areas C3, Cz, and C4). RED areas indicate higher activity, BLUE areas indicate lower activity (event-related desynchronization).

Brain-Computer Interface: Motor Imagery Analysis

EEG Analysis - Subject 7, LEFT State



Mental Command: LEFT

LEFT HAND IMAGERY: Event-Related Desynchronization (ERD) in right motor cortex (C4).

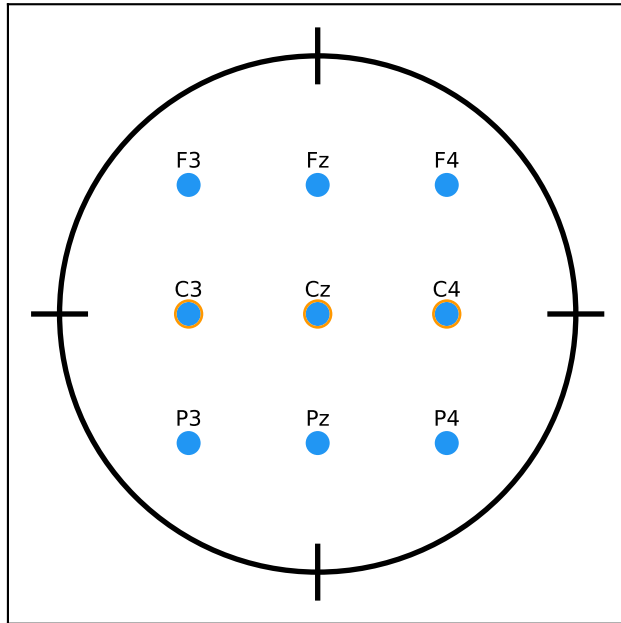
EEG Motor Imagery Patterns:

- REST: Strong alpha (10Hz) rhythms in all channels
 - LEFT Hand: ERD in right motor cortex (C4)
 - RIGHT Hand: ERD in left motor cortex (C3)

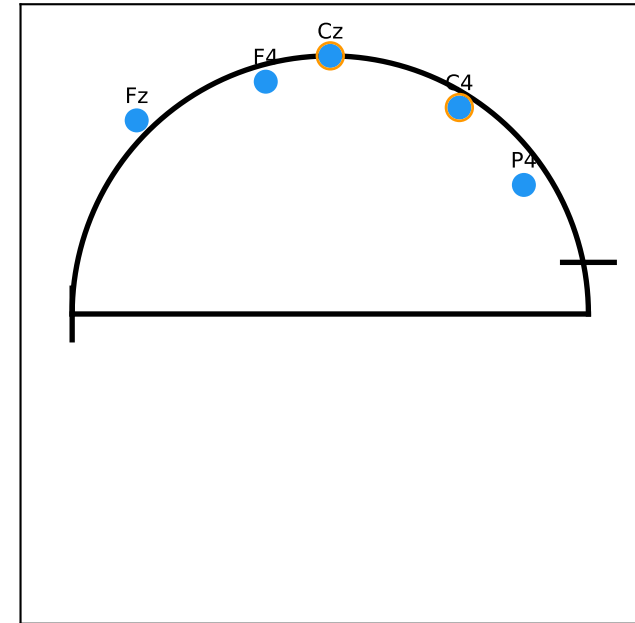
Brain Activity Topography

Subject 7, LEFT State

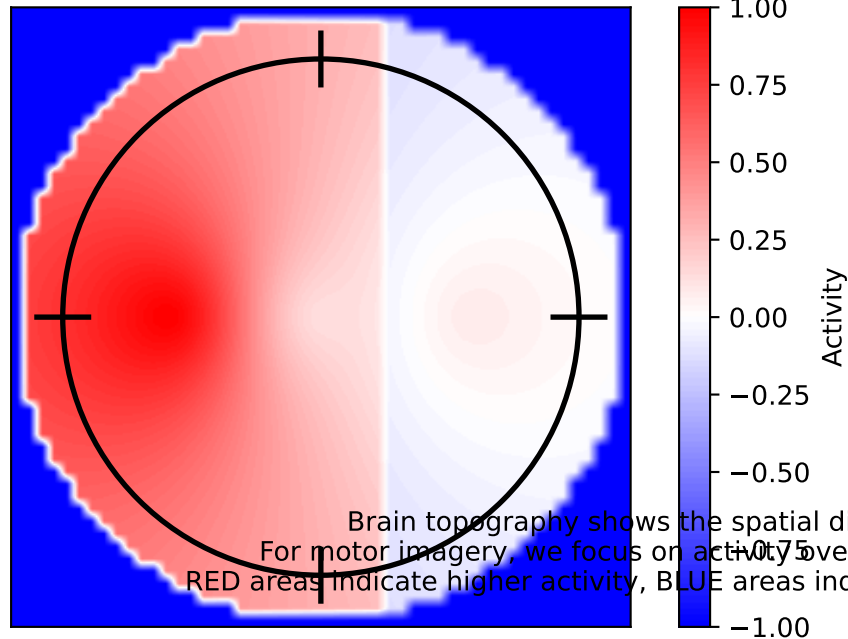
Top View



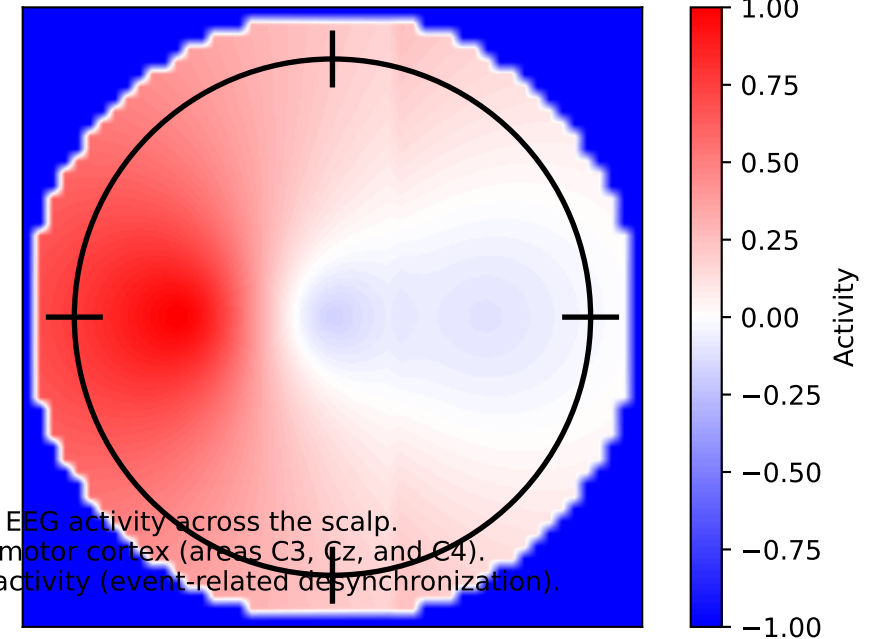
Side View



Alpha Band (8-13 Hz)



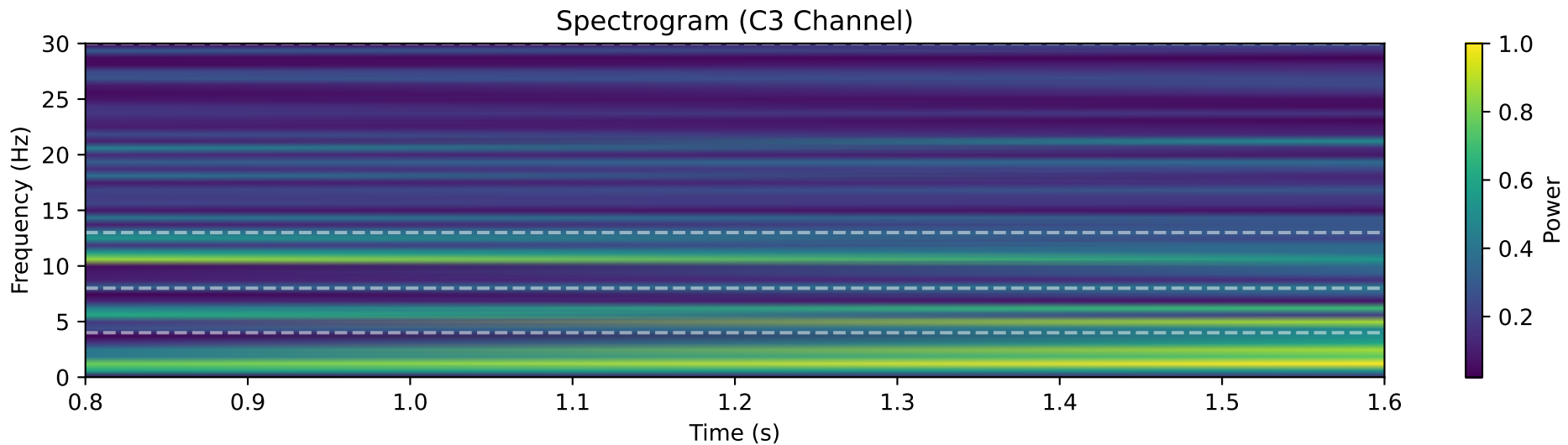
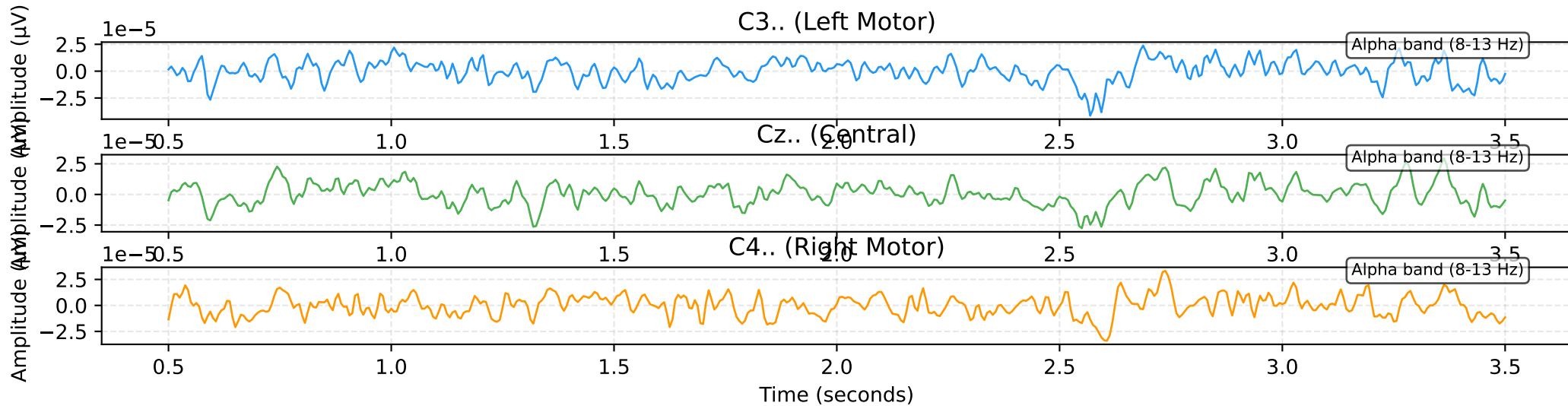
Beta Band (13-30 Hz)



Brain topography shows the spatial distribution of EEG activity across the scalp. For motor imagery, we focus on activity over the sensorimotor cortex (areas C3, Cz, and C4). RED areas indicate higher activity, BLUE areas indicate lower activity (event-related desynchronization).

Brain-Computer Interface: Motor Imagery Analysis

EEG Analysis - Subject 7, RIGHT State



Mental Command: RIGHT

RIGHT HAND IMAGERY: Event-Related Desynchronization (ERD) in left motor cortex (C3).

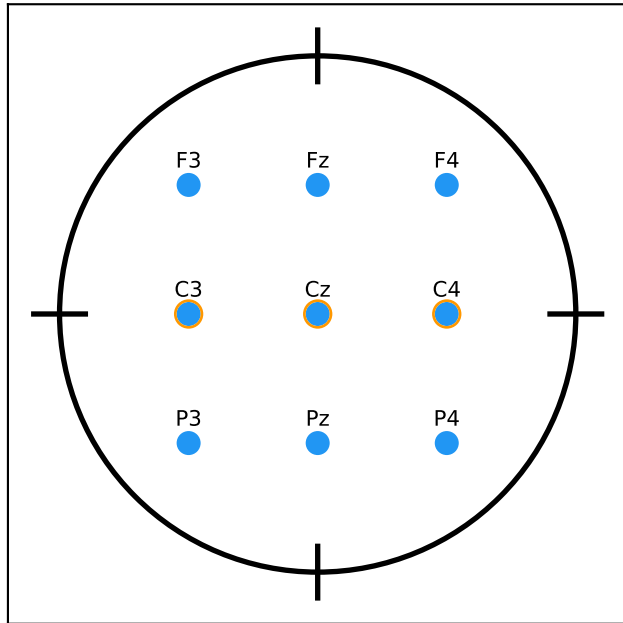
EEG Motor Imagery Patterns:

- REST: Strong alpha (10Hz) rhythms in all channels
 - LEFT Hand: ERD in right motor cortex (C4)
 - RIGHT Hand: ERD in left motor cortex (C3)

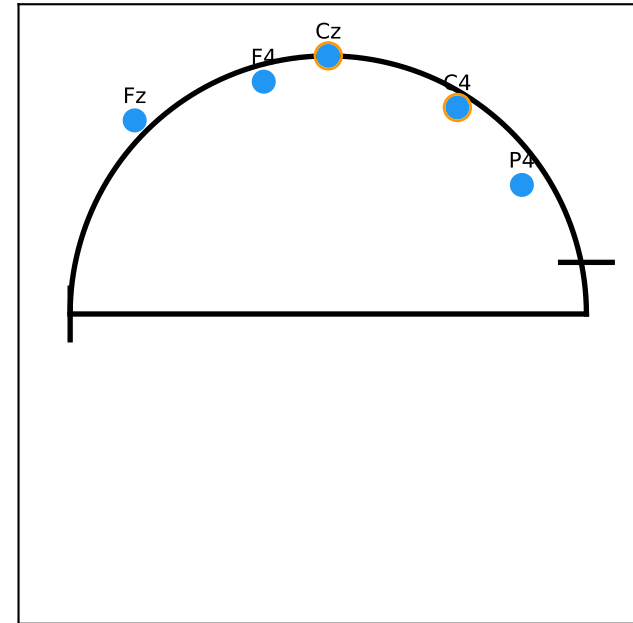
Brain Activity Topography

Subject 7, RIGHT State

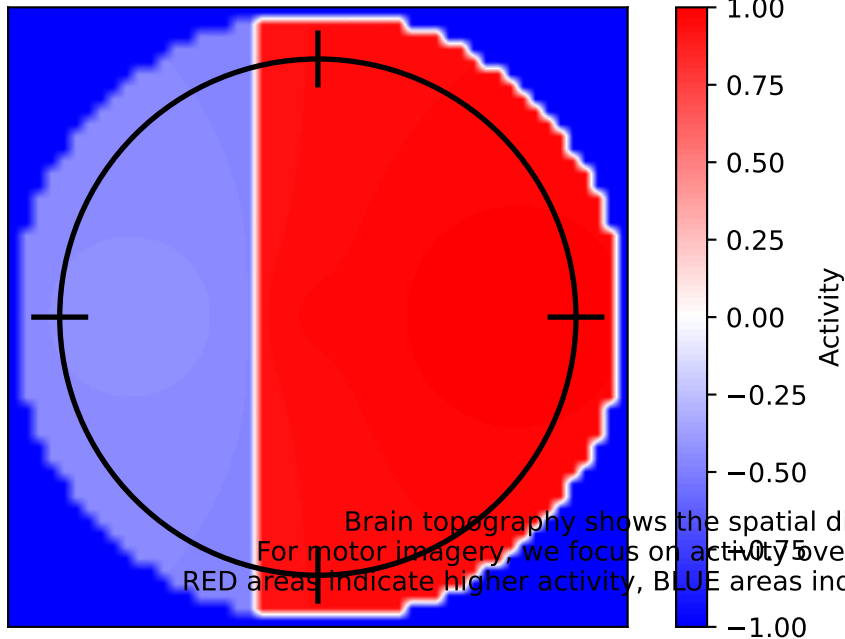
Top View



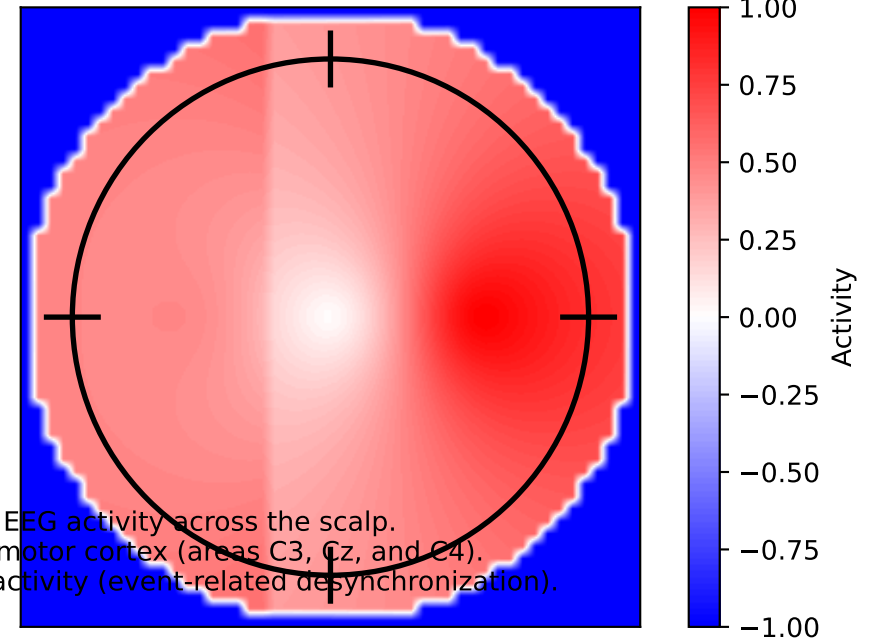
Side View



Alpha Band (8-13 Hz)



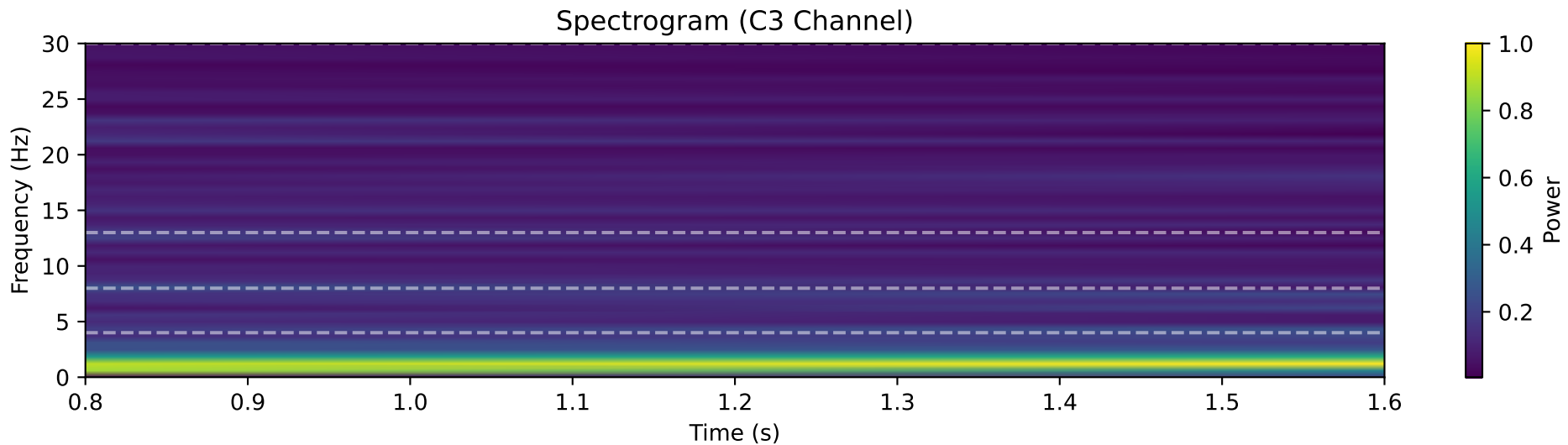
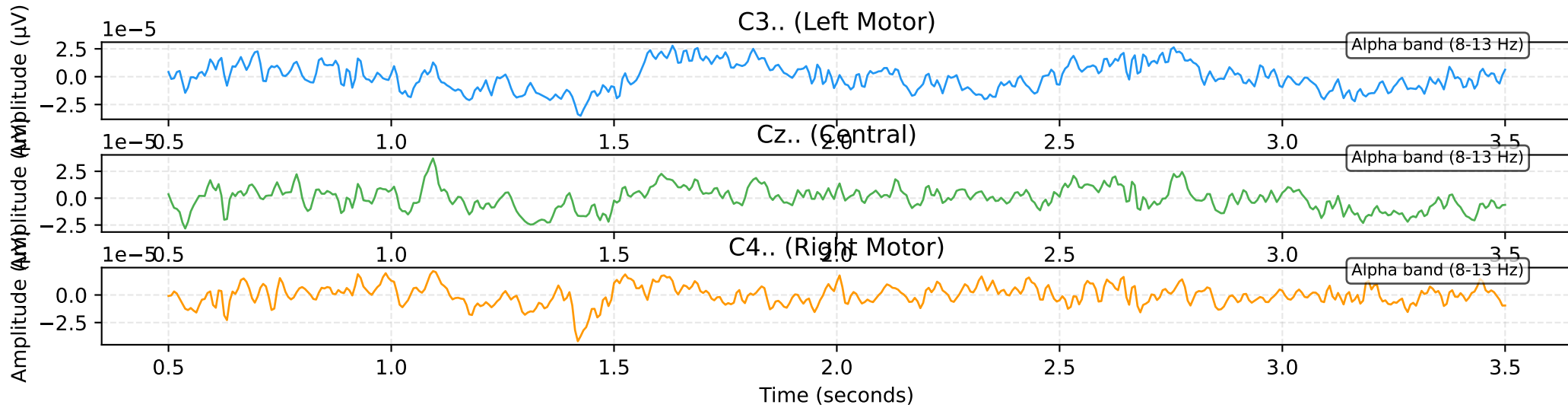
Beta Band (13-30 Hz)



Brain topography shows the spatial distribution of EEG activity across the scalp. For motor imagery, we focus on activity over the sensorimotor cortex (areas C3, Cz, and C4). RED areas indicate higher activity, BLUE areas indicate lower activity (event-related desynchronization).

Brain-Computer Interface: Motor Imagery Analysis

EEG Analysis - Subject 8, REST State



Mental Command: REST

REST STATE: Strong alpha rhythm present in all channels.

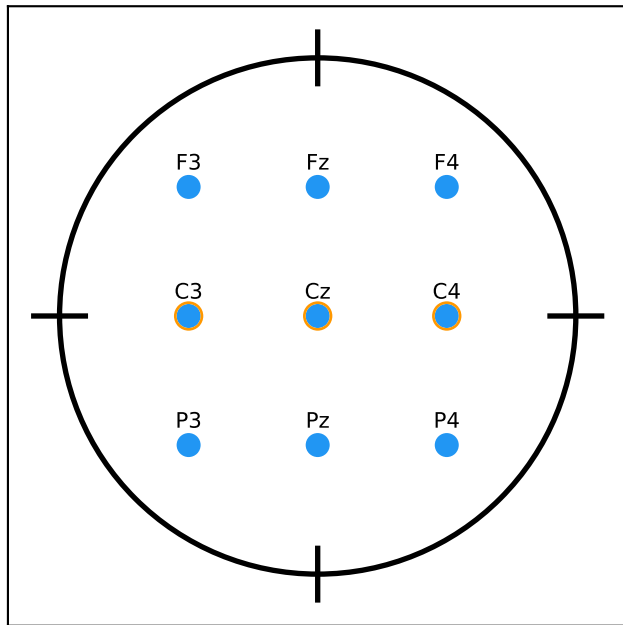
EEG Motor Imagery Patterns:

- REST: Strong alpha (10Hz) rhythms in all channels
 - LEFT Hand: ERD in right motor cortex (C4)
 - RIGHT Hand: ERD in left motor cortex (C3)

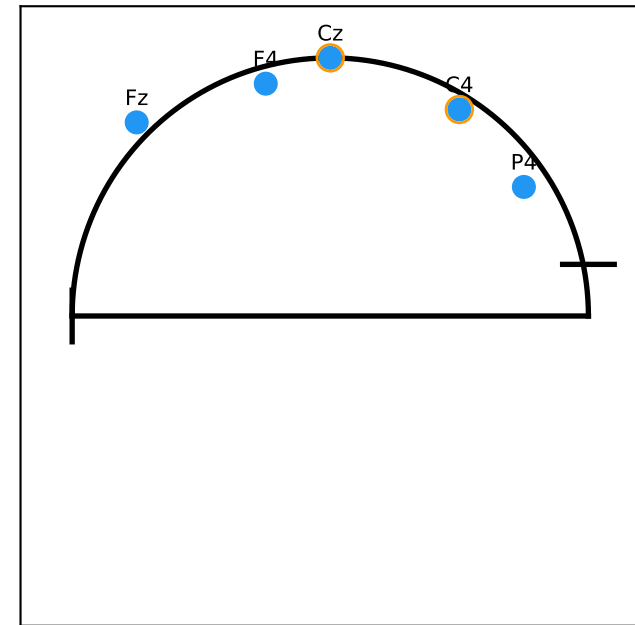
Brain Activity Topography

Subject 8, REST State

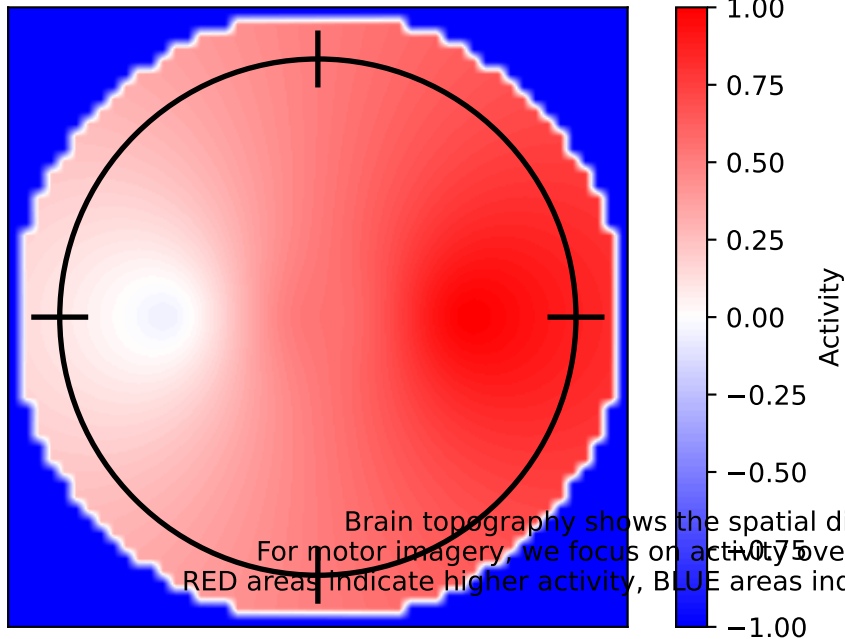
Top View



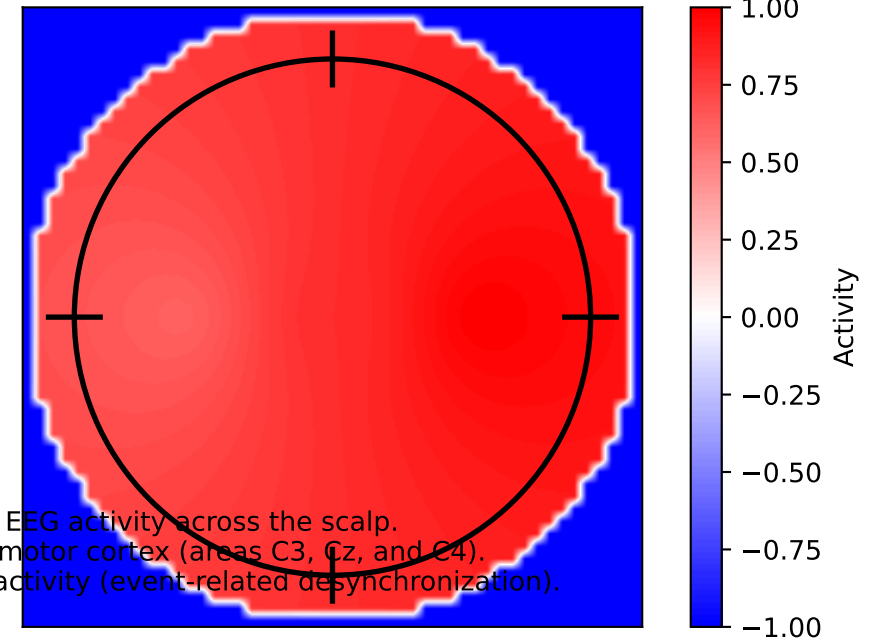
Side View



Alpha Band (8-13 Hz)



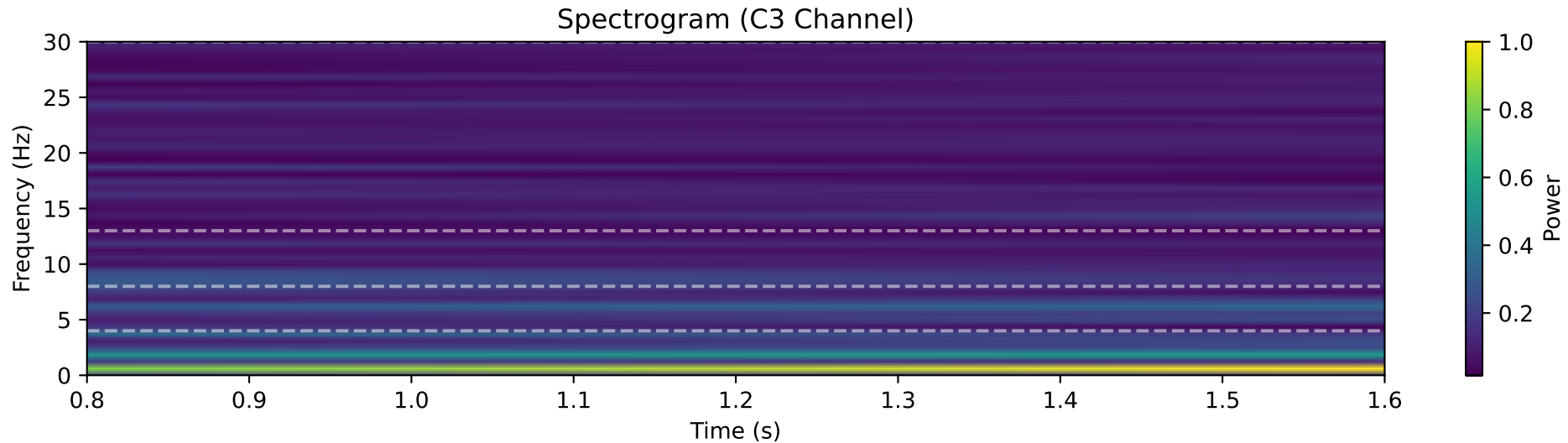
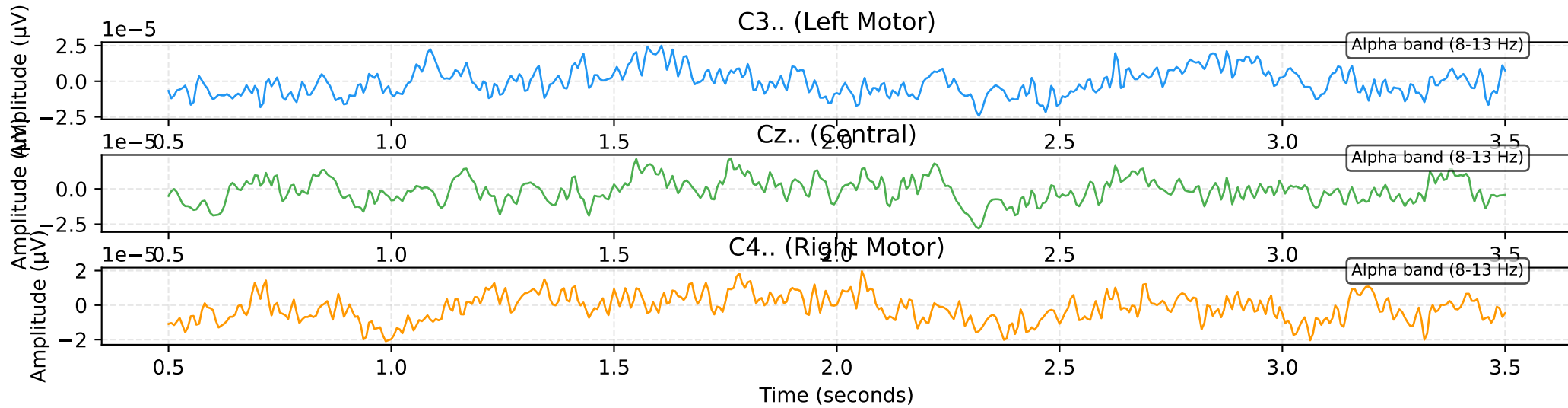
Beta Band (13-30 Hz)



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RED areas indicate higher activity, BLUE areas indicate lower activity (event-related desynchronization).

Brain-Computer Interface: Motor Imagery Analysis

EEG Analysis - Subject 8, LEFT State



Mental Command: LEFT

LEFT HAND IMAGERY: Event-Related Desynchronization (ERD) in right motor cortex (C4).

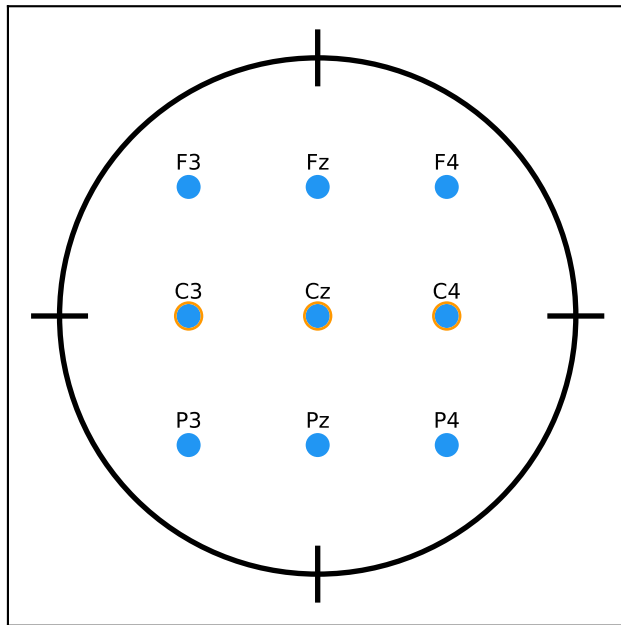
EEG Motor Imagery Patterns:

- REST: Strong alpha (10Hz) rhythms in all channels
 - LEFT Hand: ERD in right motor cortex (C4)
 - RIGHT Hand: ERD in left motor cortex (C3)

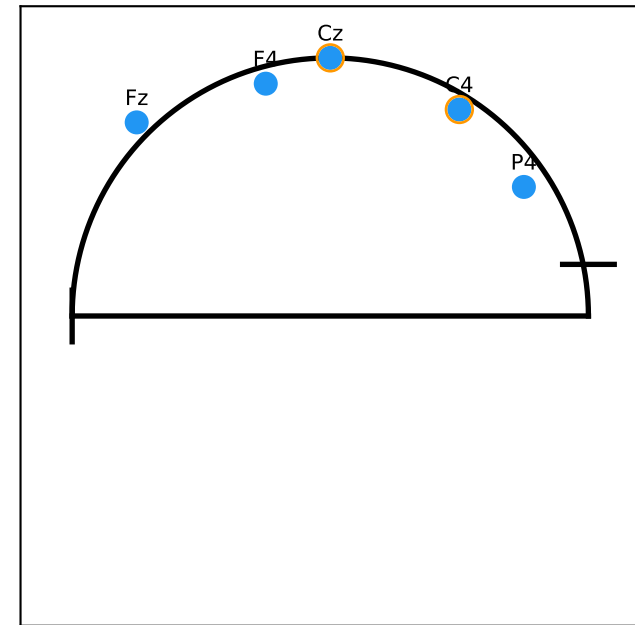
Brain Activity Topography

Subject 8, LEFT State

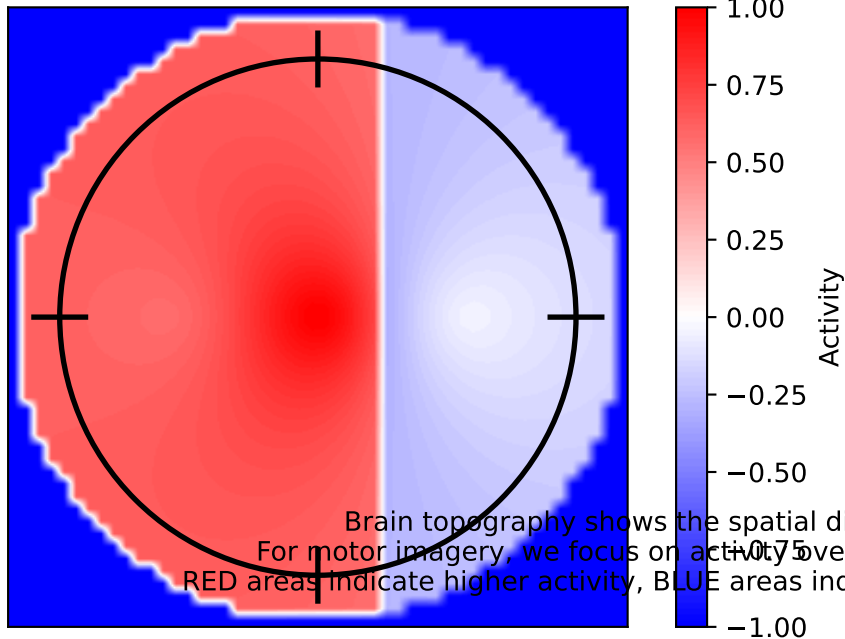
Top View



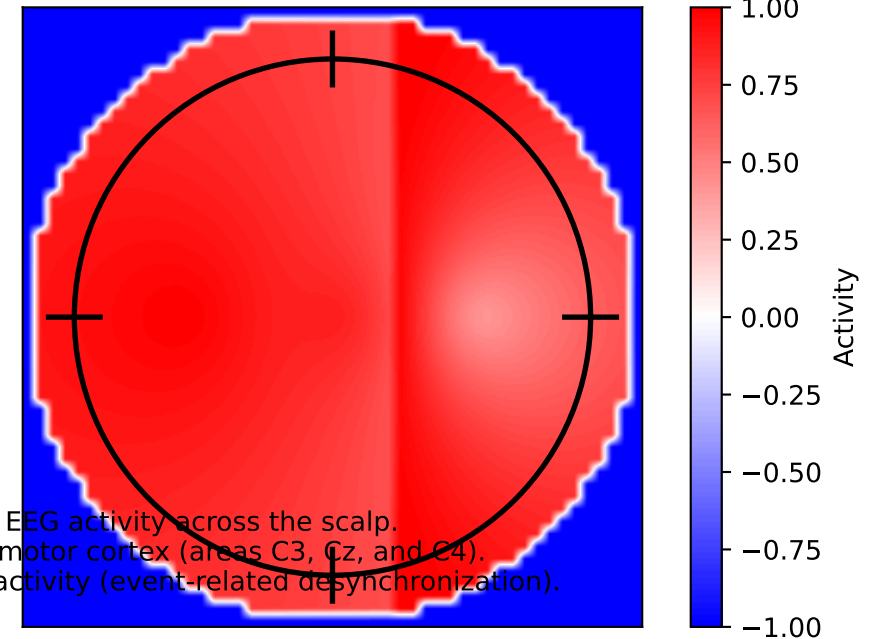
Side View



Alpha Band (8-13 Hz)



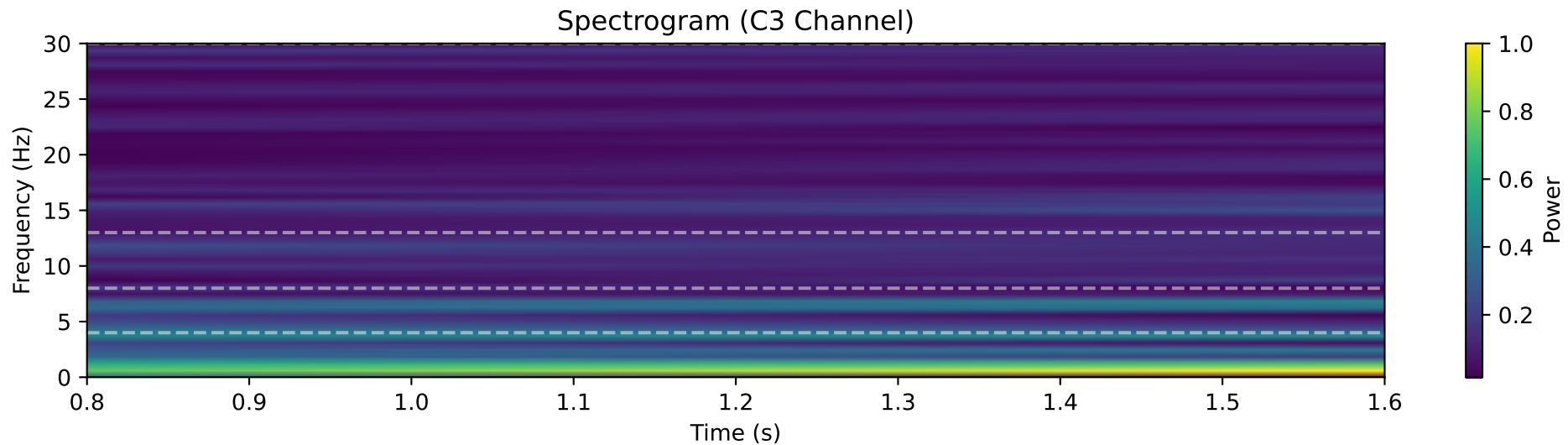
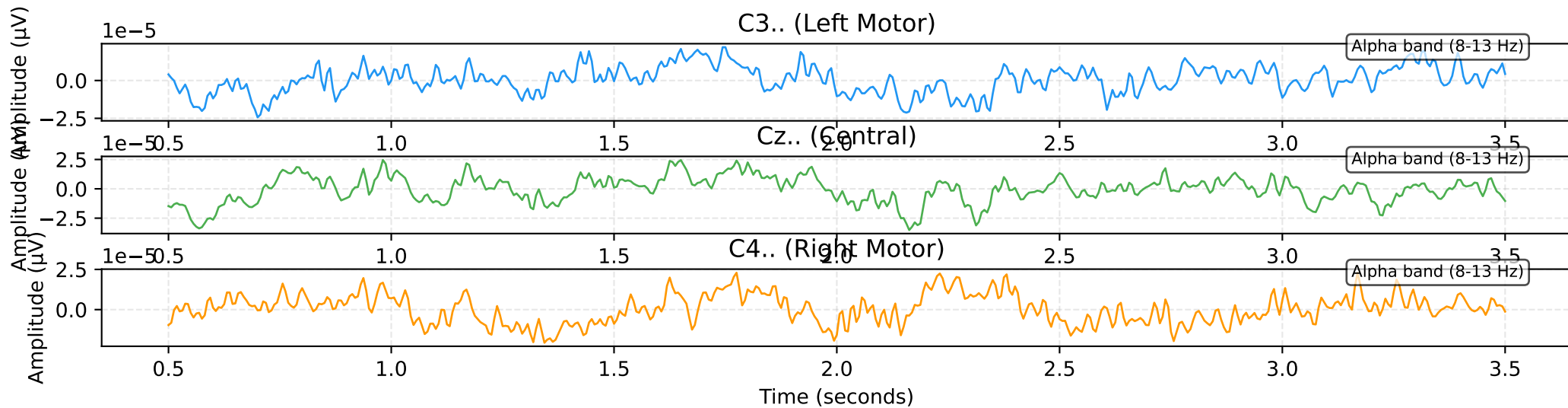
Beta Band (13-30 Hz)



Brain topography shows the spatial distribution of EEG activity across the scalp.
For motor imagery, we focus on activity over the sensorimotor cortex (areas C3, Cz, and C4).
RED areas indicate higher activity, BLUE areas indicate lower activity (event-related desynchronization).

Brain-Computer Interface: Motor Imagery Analysis

EEG Analysis - Subject 8, RIGHT State



Mental Command: RIGHT

RIGHT HAND IMAGERY: Event-Related Desynchronization (ERD) in left motor cortex (C3).

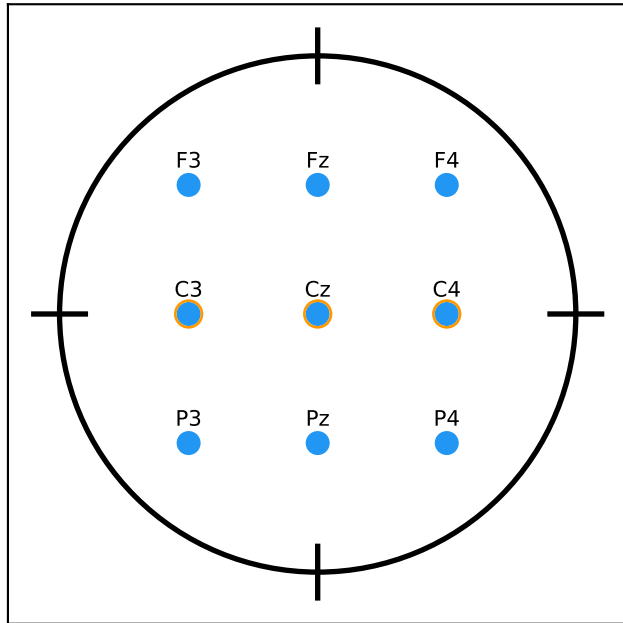
EEG Motor Imagery Patterns:

- REST: Strong alpha (10Hz) rhythms in all channels
 - LEFT Hand: ERD in right motor cortex (C4)
 - RIGHT Hand: ERD in left motor cortex (C3)

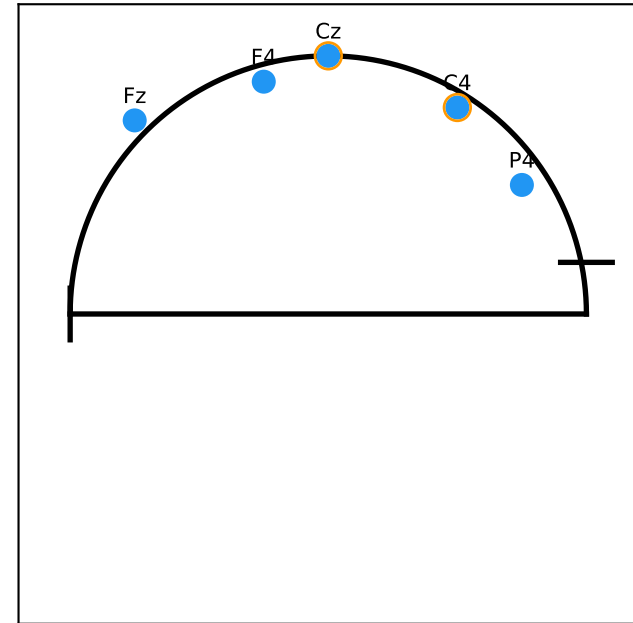
Brain Activity Topography

Subject 8, RIGHT State

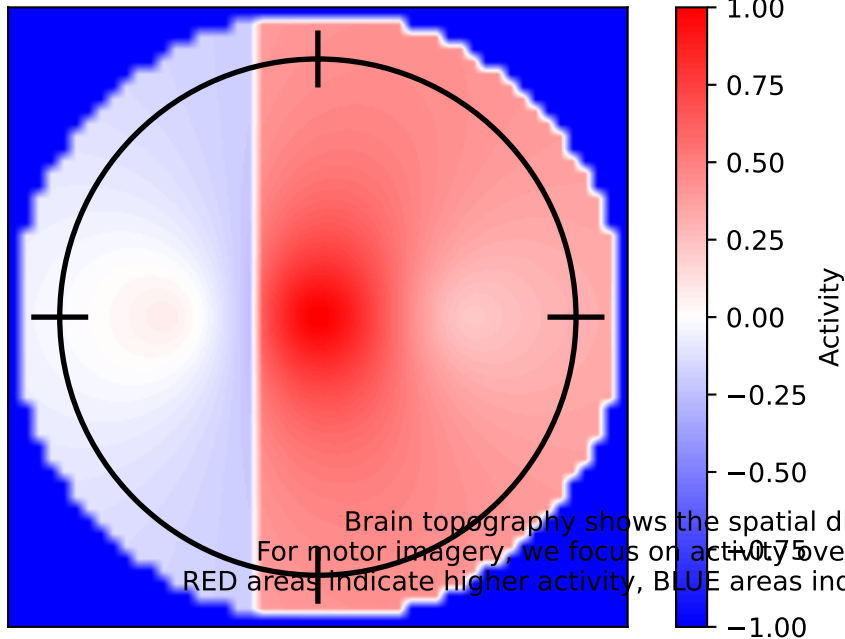
Top View



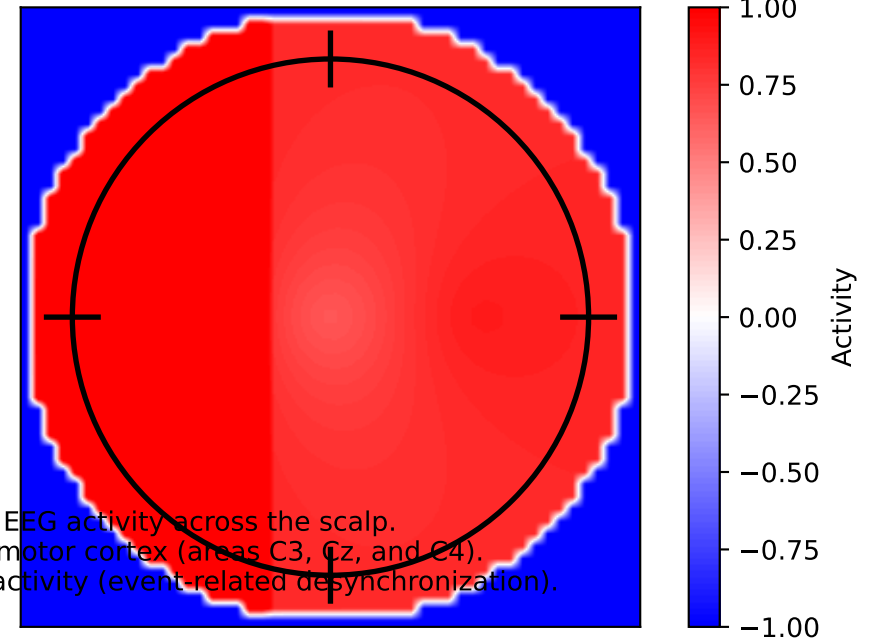
Side View



Alpha Band (8-13 Hz)



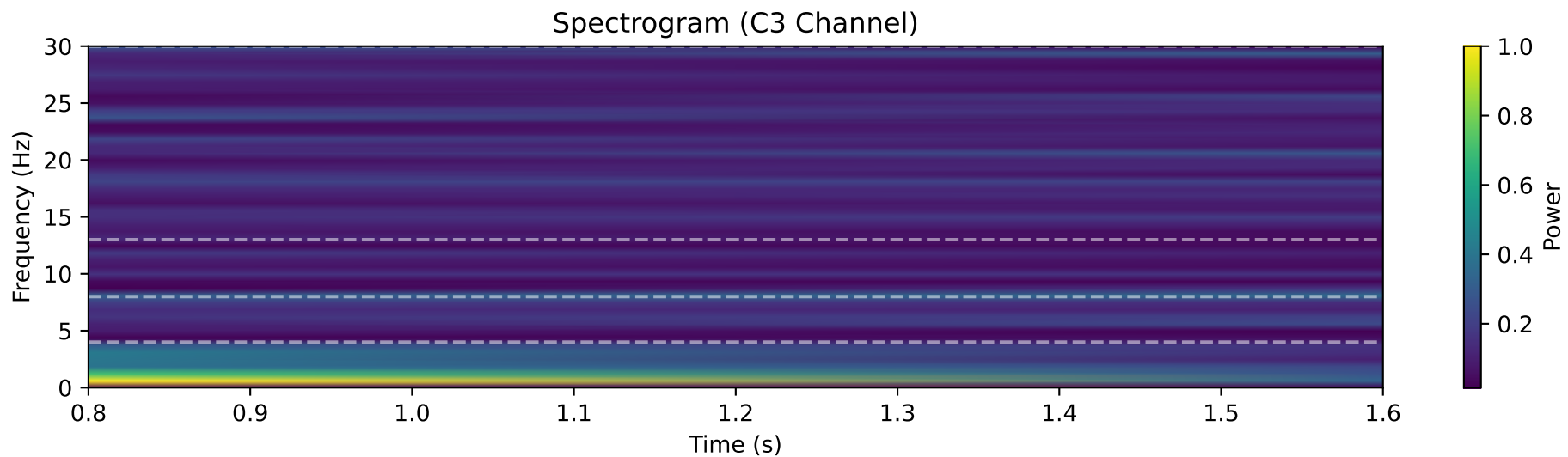
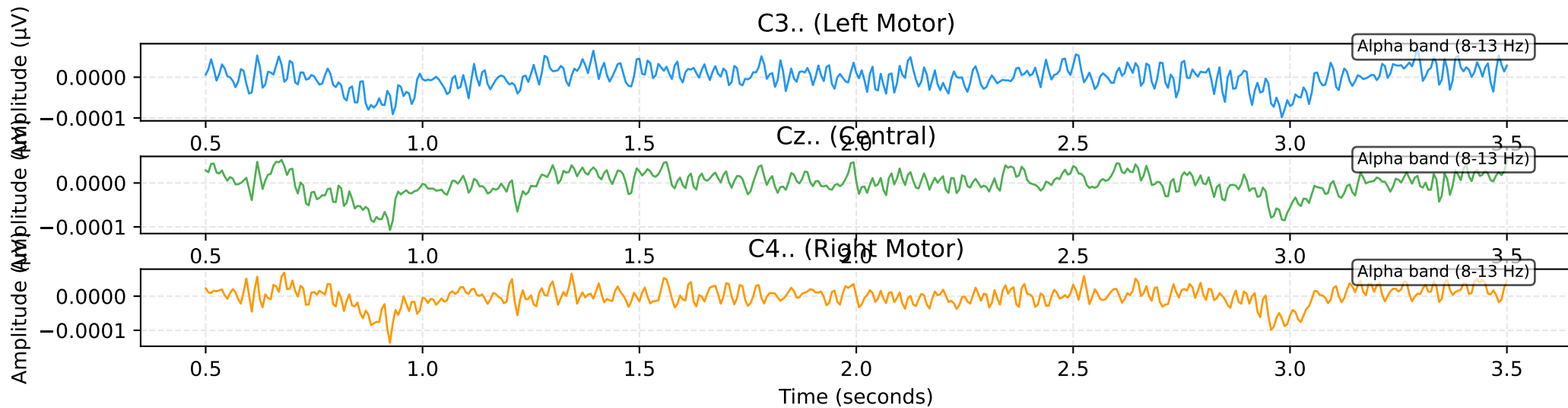
Beta Band (13-30 Hz)



Brain topography shows the spatial distribution of EEG activity across the scalp. For motor imagery, we focus on activity over the sensorimotor cortex (areas C3, Cz, and C4). RED areas indicate higher activity, BLUE areas indicate lower activity (event-related desynchronization).

Brain-Computer Interface: Motor Imagery Analysis

EEG Analysis - Subject 9, REST State



Mental Command: REST

REST STATE: Strong alpha rhythm present in all channels.

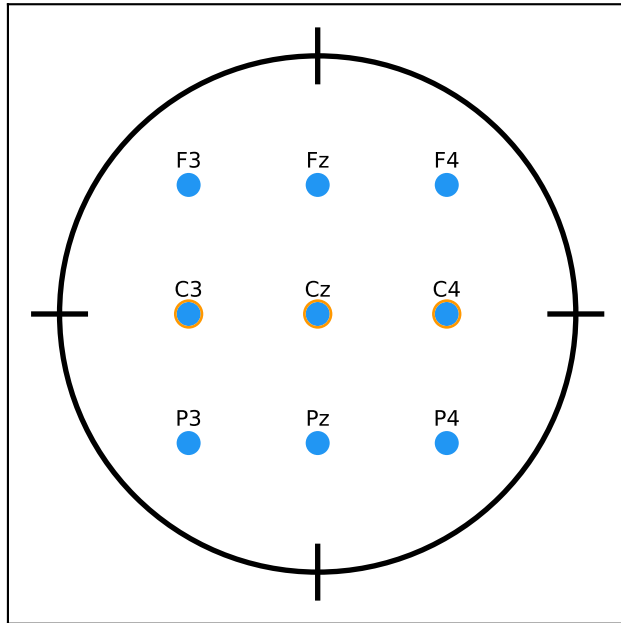
EEG Motor Imagery Patterns:

- REST: Strong alpha (10Hz) rhythms in all channels
 - LEFT Hand: ERD in right motor cortex (C4)
 - RIGHT Hand: ERD in left motor cortex (C3)

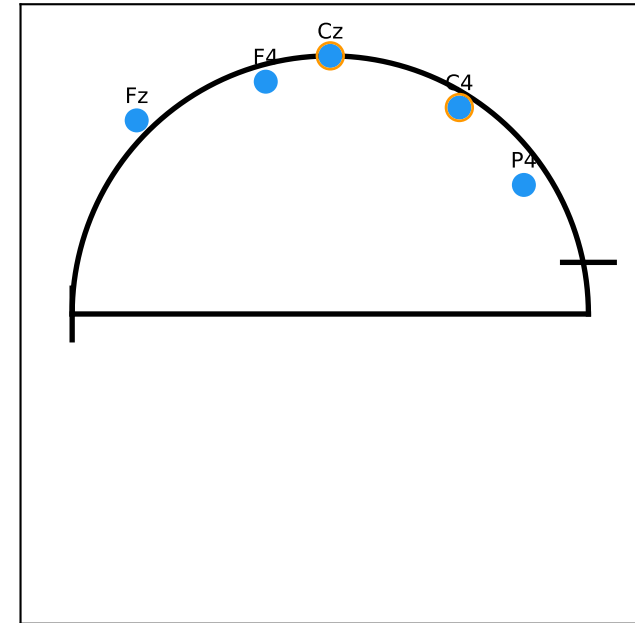
Brain Activity Topography

Subject 9, REST State

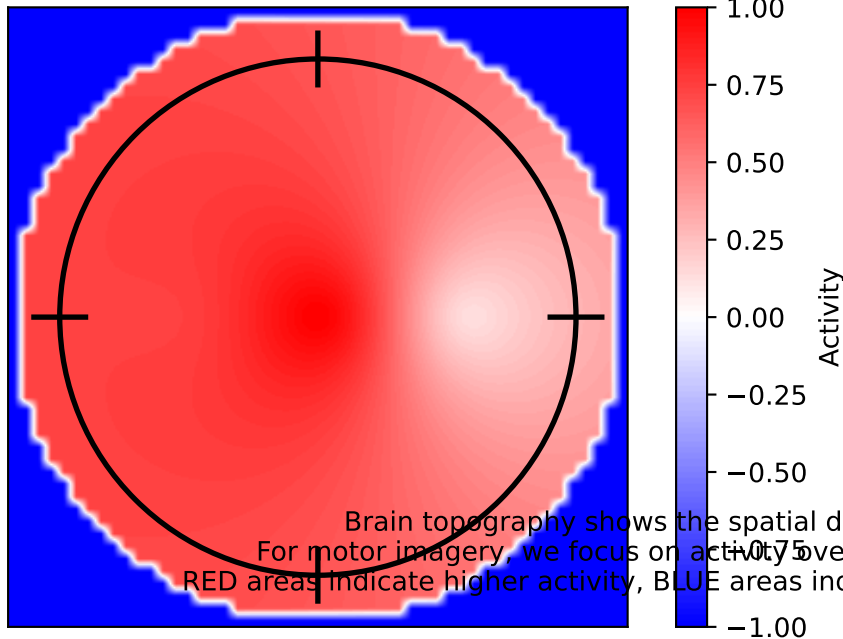
Top View



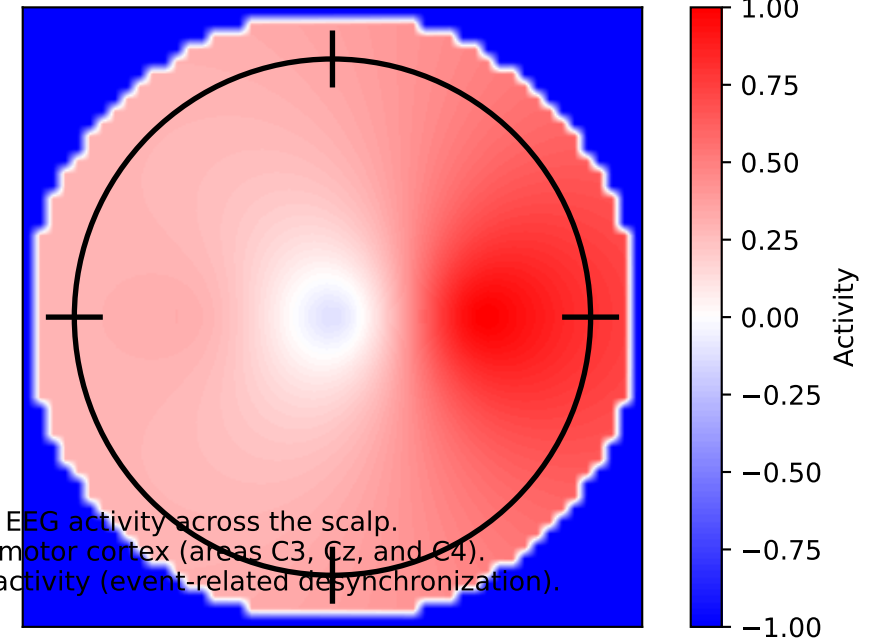
Side View



Alpha Band (8-13 Hz)



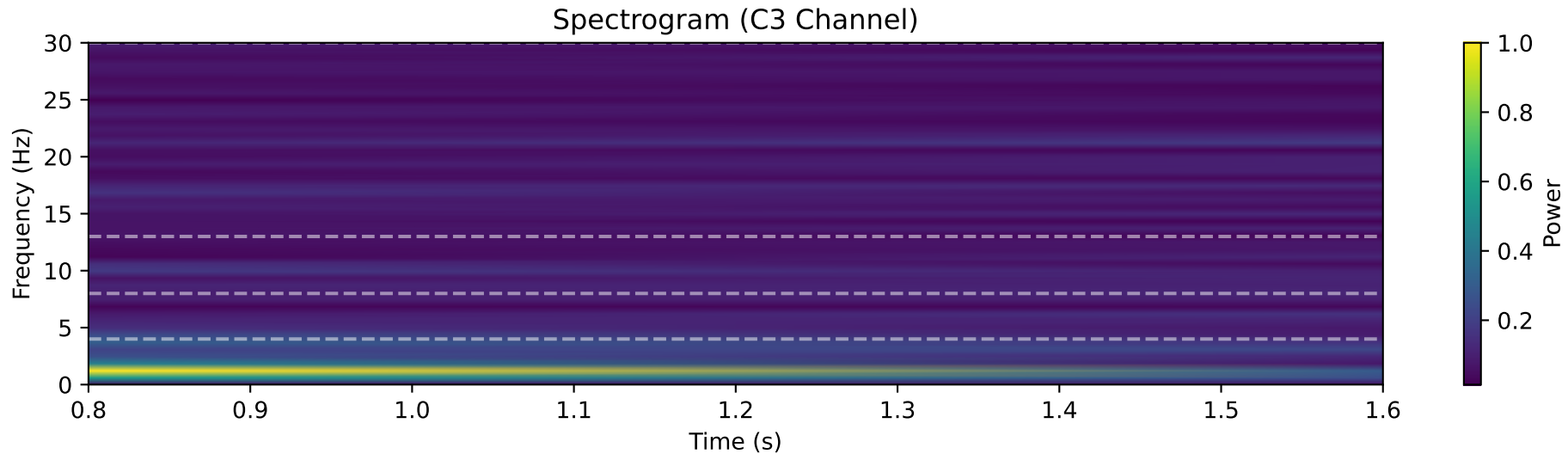
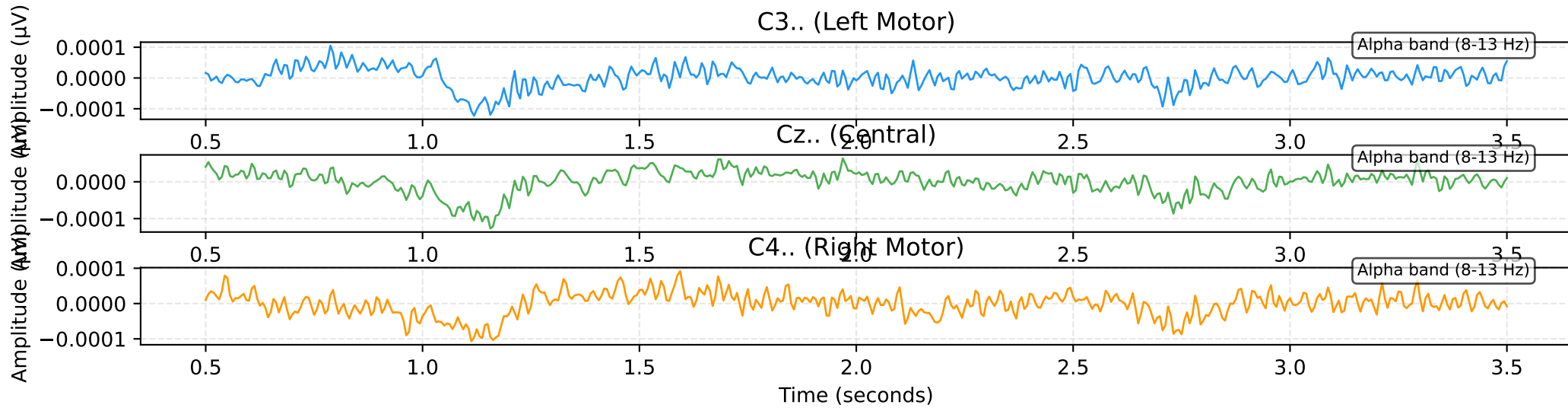
Beta Band (13-30 Hz)



Brain topography shows the spatial distribution of EEG activity across the scalp. For motor imagery, we focus on activity over the sensorimotor cortex (areas C3, Cz, and C4). RED areas indicate higher activity, BLUE areas indicate lower activity (event-related desynchronization).

Brain-Computer Interface: Motor Imagery Analysis

EEG Analysis - Subject 9, LEFT State



Mental Command: LEFT

LEFT HAND IMAGERY: Event-Related Desynchronization (ERD) in right motor cortex (C4).

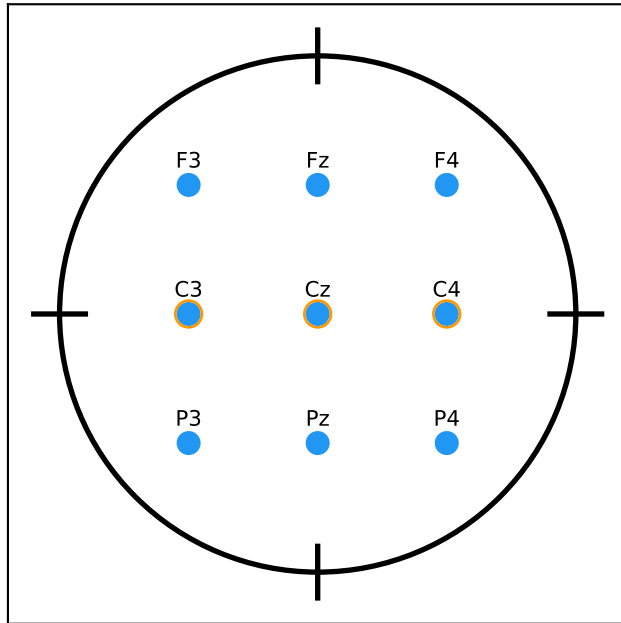
EEG Motor Imagery Patterns:

- REST: Strong alpha (10Hz) rhythms in all channels
 - LEFT Hand: ERD in right motor cortex (C4)
 - RIGHT Hand: ERD in left motor cortex (C3)

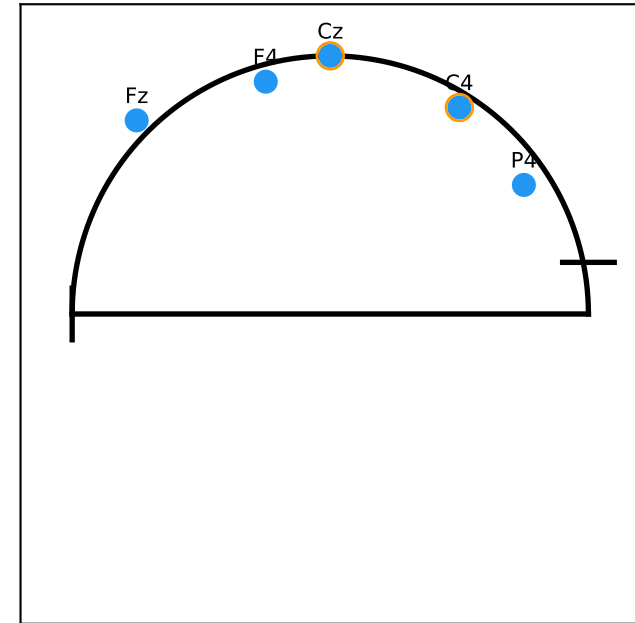
Brain Activity Topography

Subject 9, LEFT State

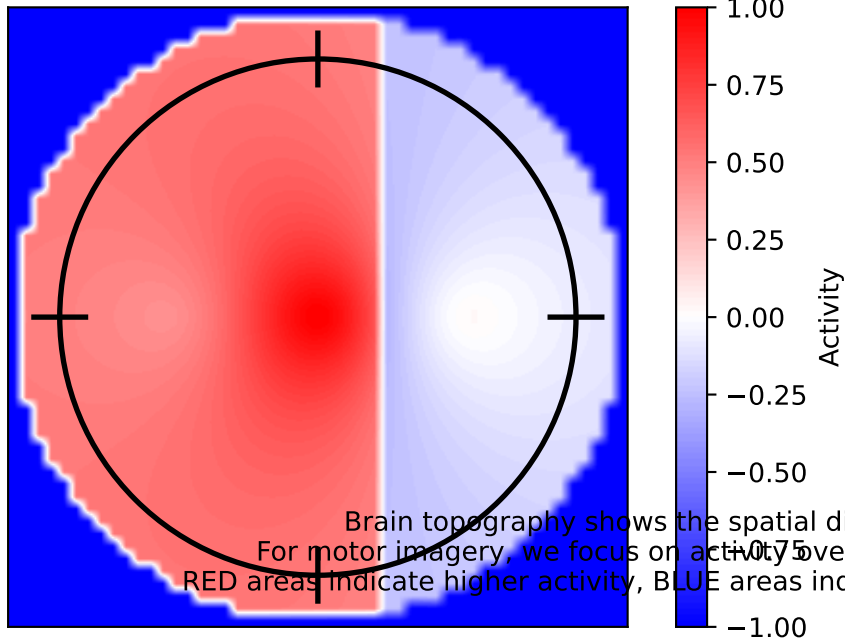
Top View



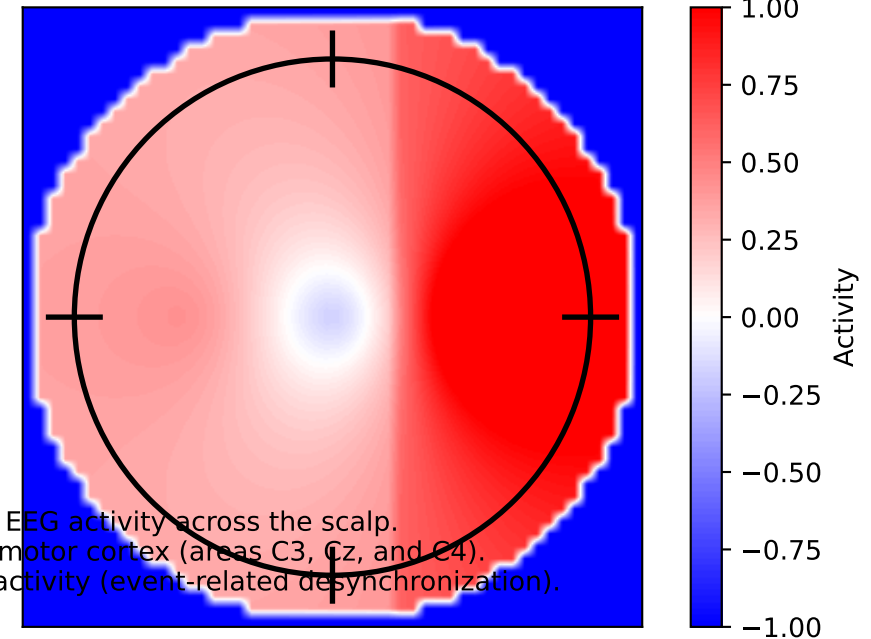
Side View



Alpha Band (8-13 Hz)



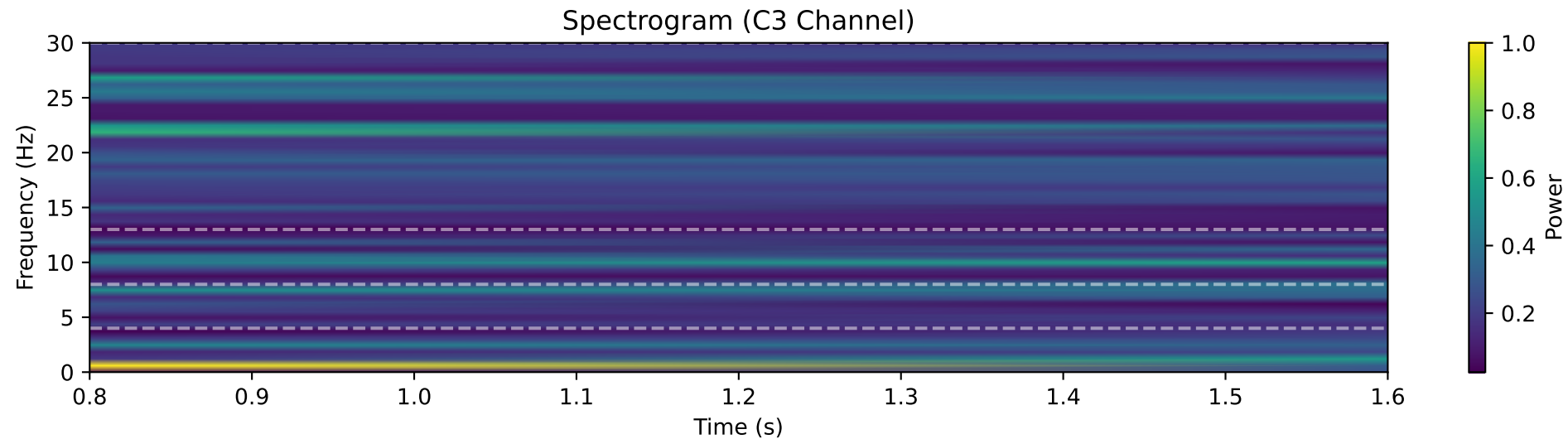
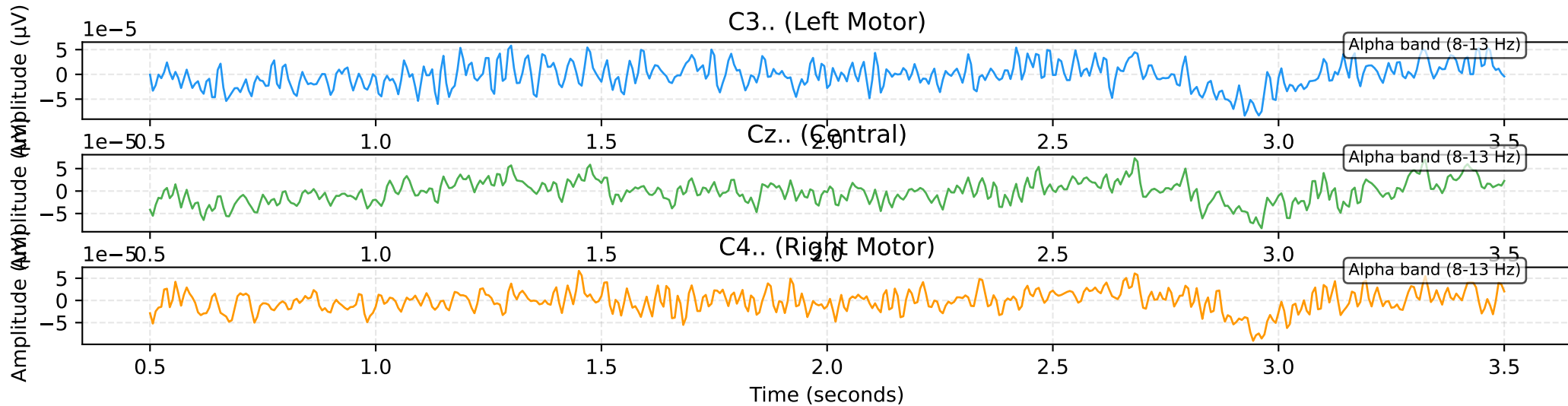
Beta Band (13-30 Hz)



Brain topography shows the spatial distribution of EEG activity across the scalp. For motor imagery, we focus on activity over the sensorimotor cortex (areas C3, Cz, and C4). RED areas indicate higher activity, BLUE areas indicate lower activity (event-related desynchronization).

Brain-Computer Interface: Motor Imagery Analysis

EEG Analysis - Subject 9, RIGHT State



Mental Command: RIGHT

RIGHT HAND IMAGERY: Event-Related Desynchronization (ERD) in left motor cortex (C3).

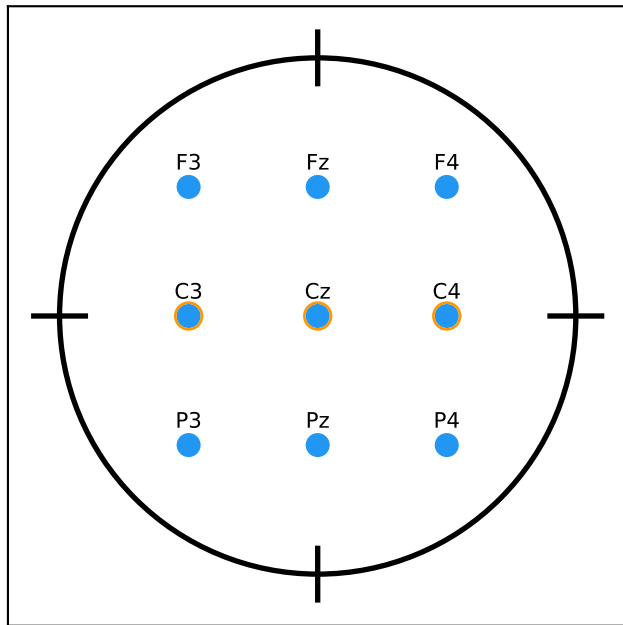
EEG Motor Imagery Patterns:

- REST: Strong alpha (10Hz) rhythms in all channels
 - LEFT Hand: ERD in right motor cortex (C4)
 - RIGHT Hand: ERD in left motor cortex (C3)

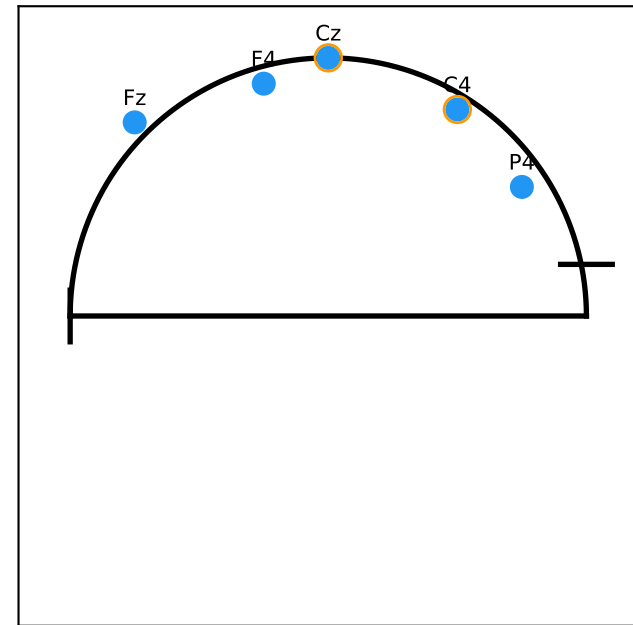
Brain Activity Topography

Subject 9, RIGHT State

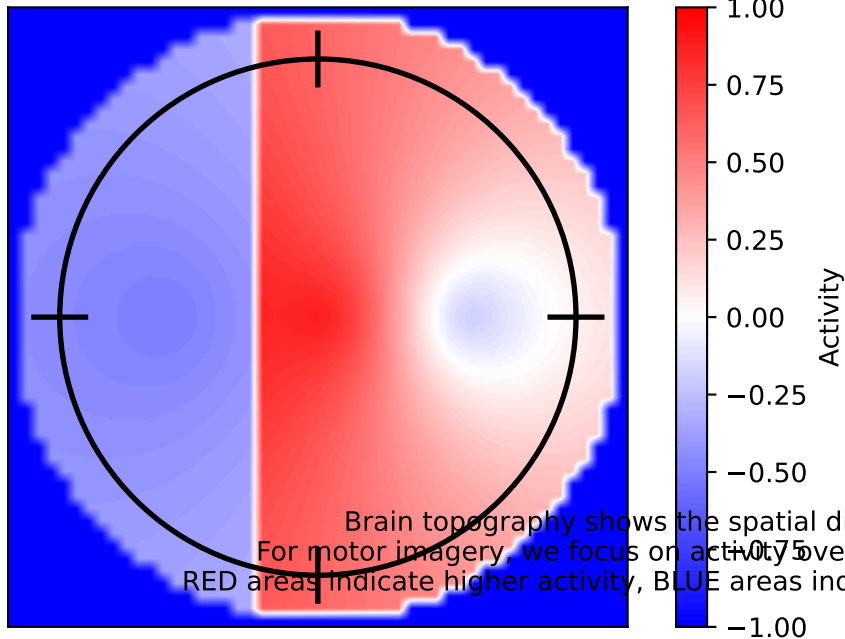
Top View



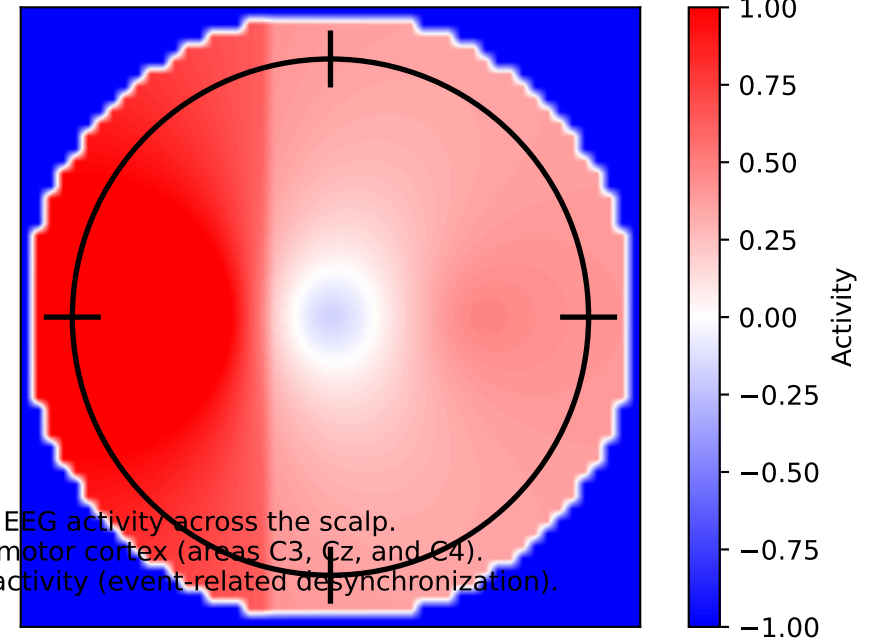
Side View



Alpha Band (8-13 Hz)



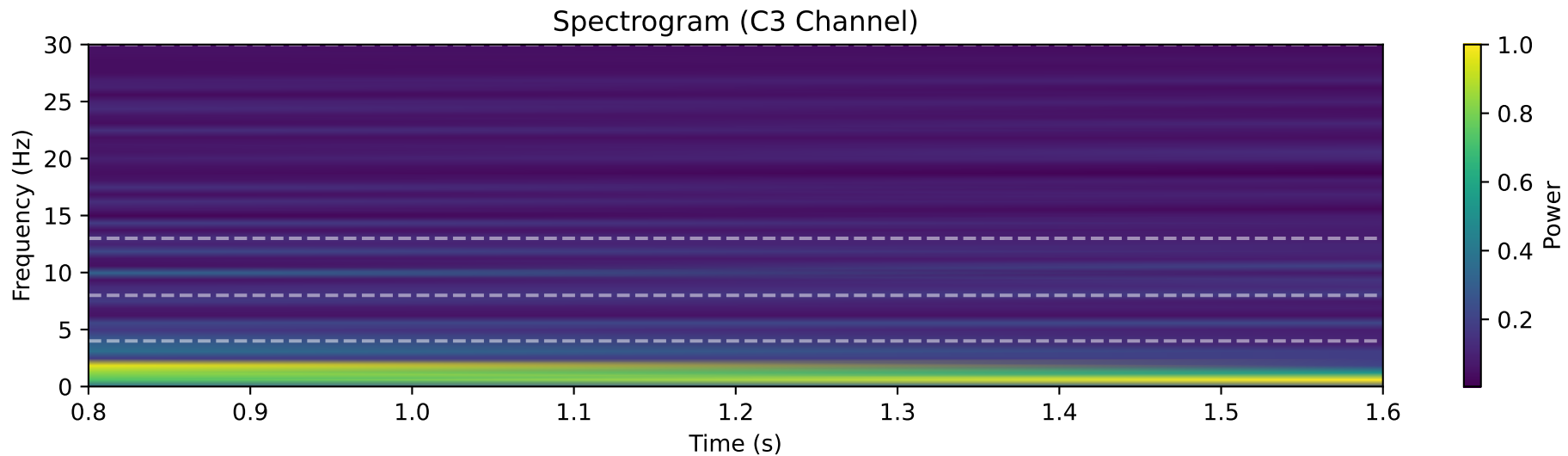
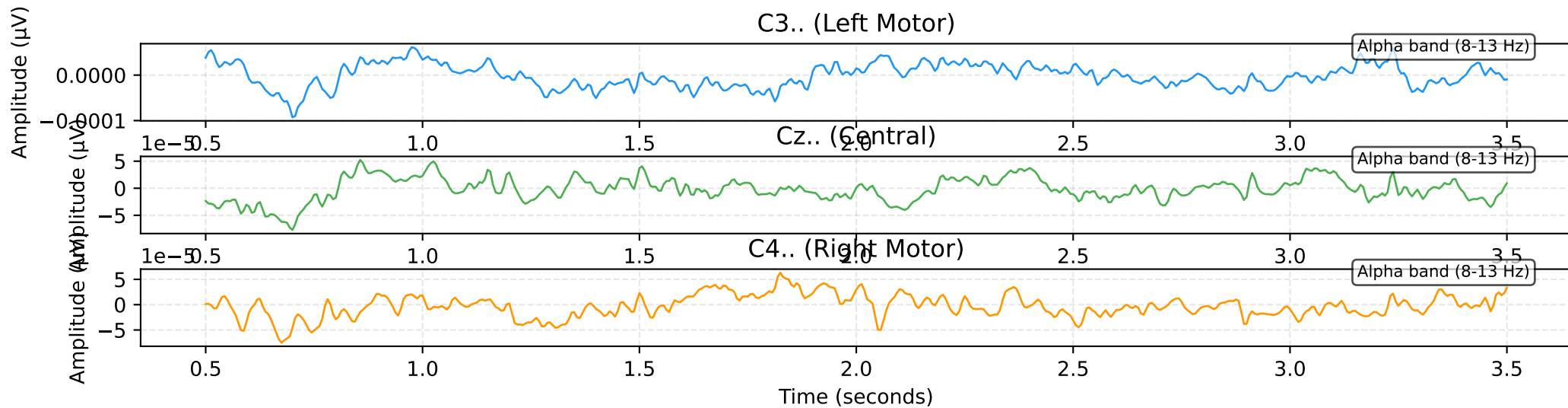
Beta Band (13-30 Hz)



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Brain-Computer Interface: Motor Imagery Analysis

EEG Analysis - Subject 10, REST State



Mental Command: REST

REST STATE: Strong alpha rhythm present in all channels.

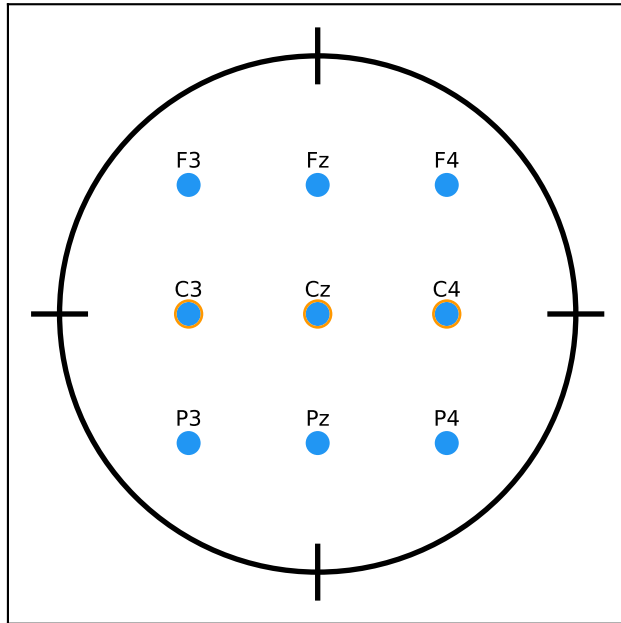
EEG Motor Imagery Patterns:

- REST: Strong alpha (10Hz) rhythms in all channels
 - LEFT Hand: ERD in right motor cortex (C4)
 - RIGHT Hand: ERD in left motor cortex (C3)

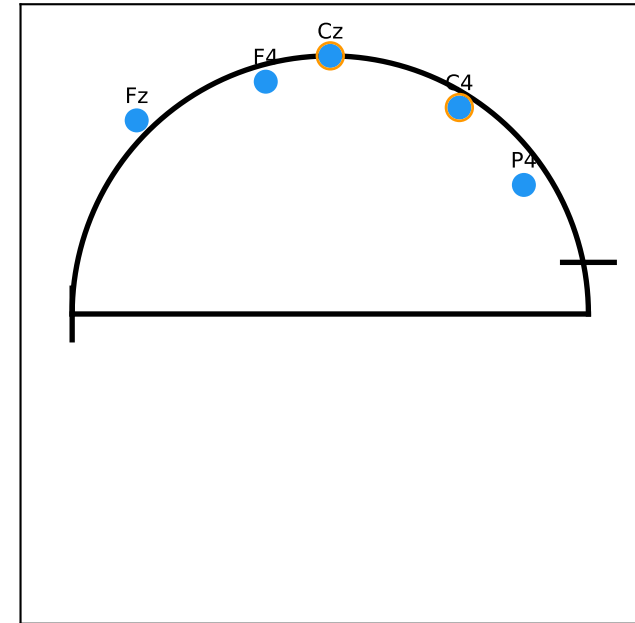
Brain Activity Topography

Subject 10, REST State

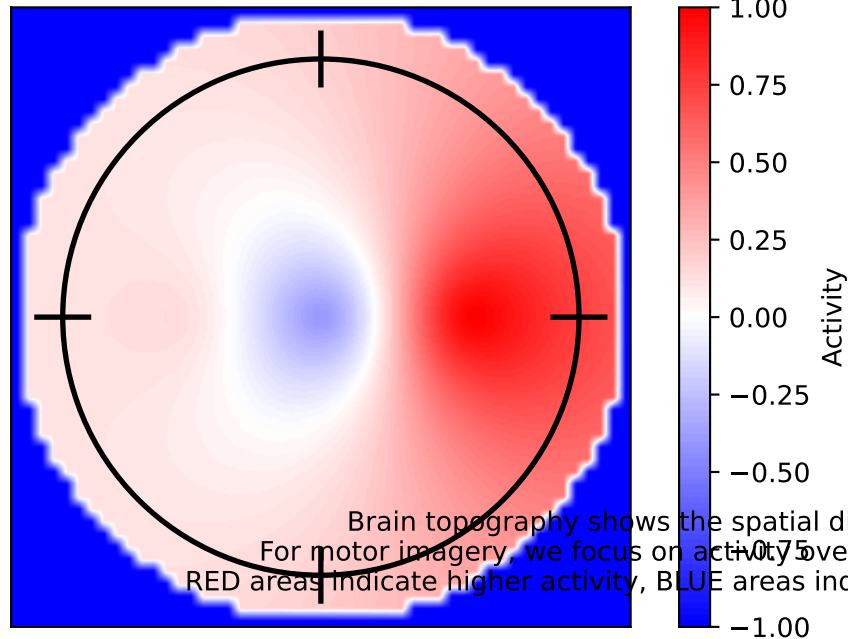
Top View



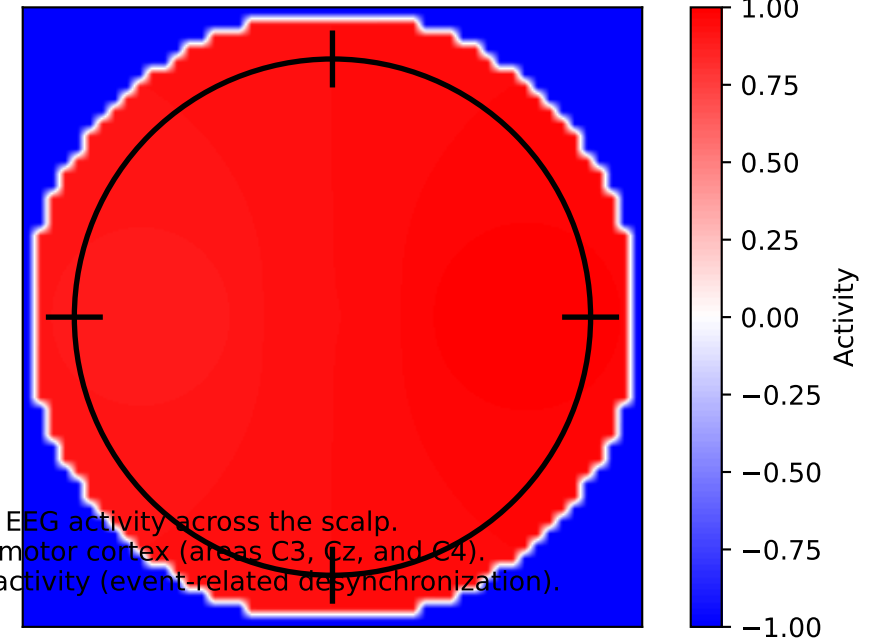
Side View



Alpha Band (8-13 Hz)



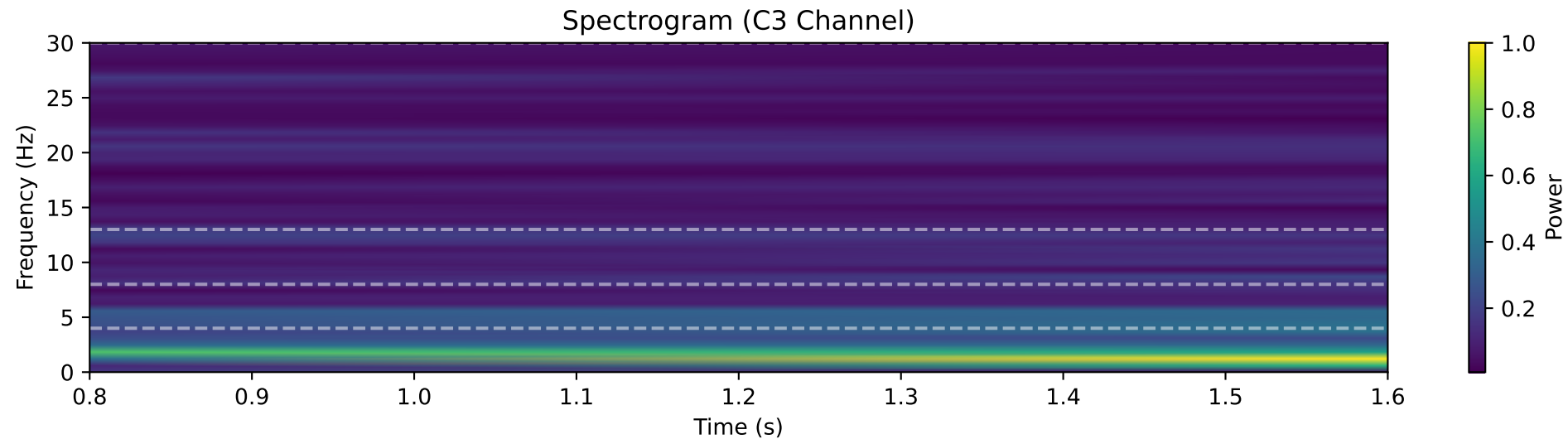
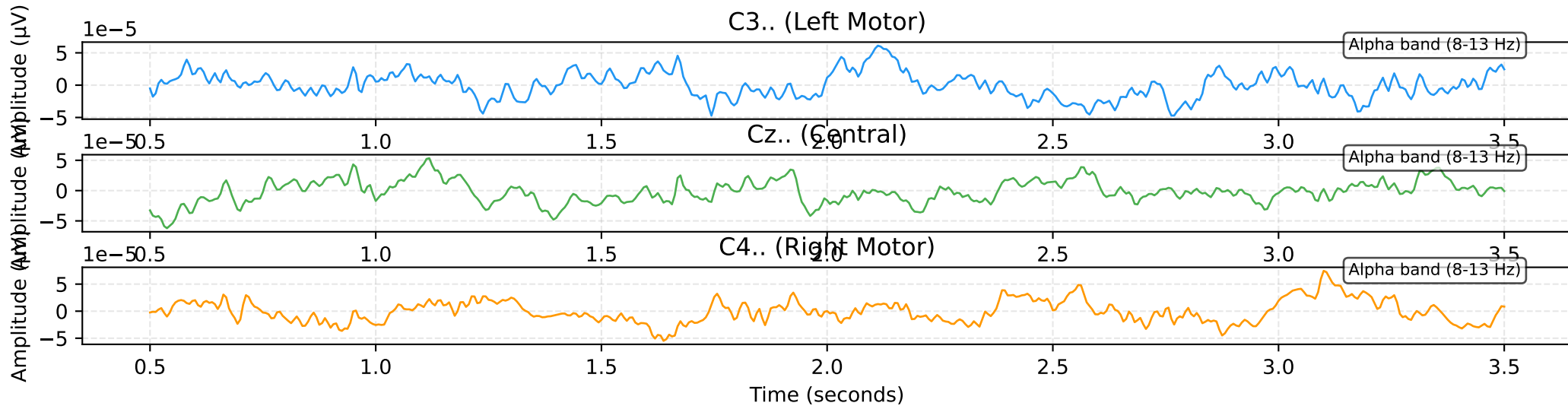
Beta Band (13-30 Hz)



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Brain-Computer Interface: Motor Imagery Analysis

EEG Analysis - Subject 10, LEFT State



Mental Command: LEFT

LEFT HAND IMAGERY: Event-Related Desynchronization (ERD) in right motor cortex (C4).

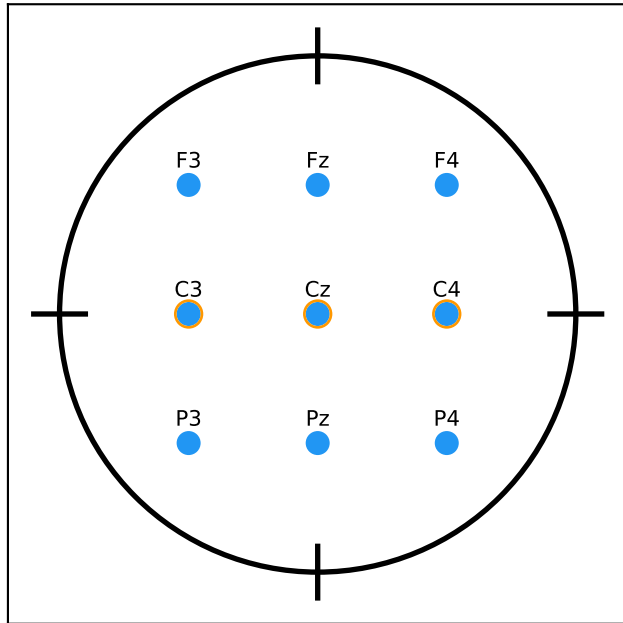
EEG Motor Imagery Patterns:

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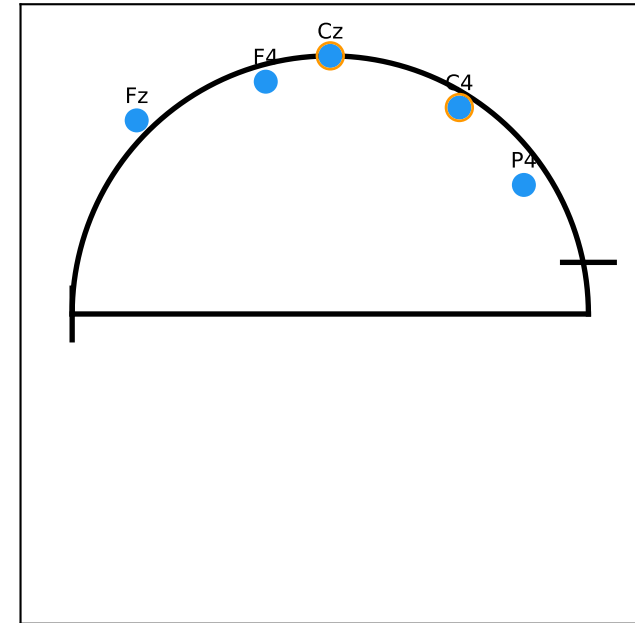
Brain Activity Topography

Subject 10, LEFT State

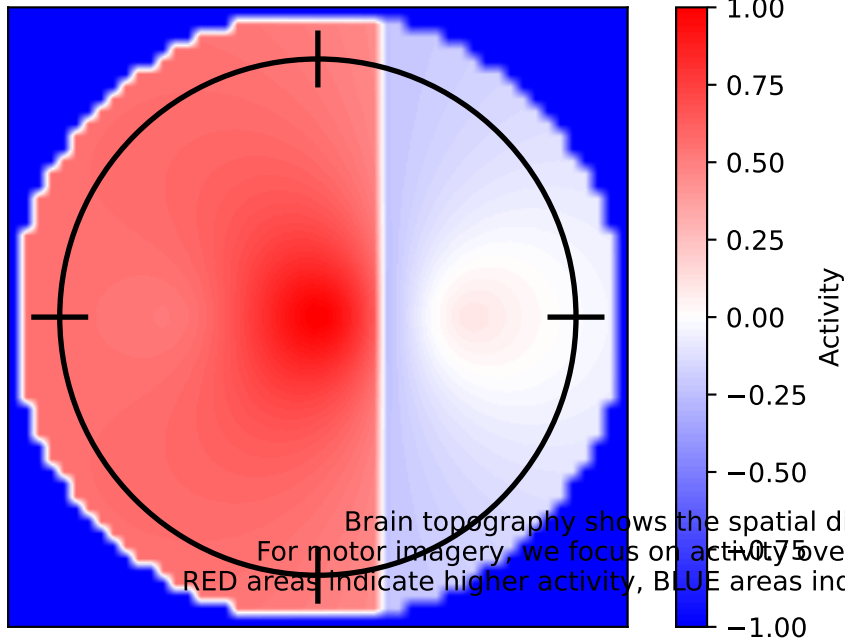
Top View



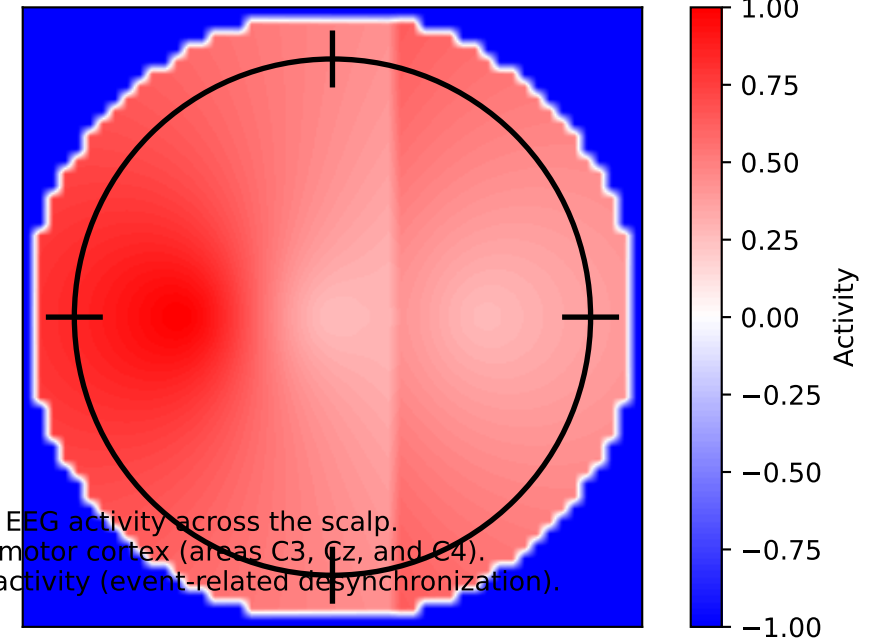
Side View



Alpha Band (8-13 Hz)



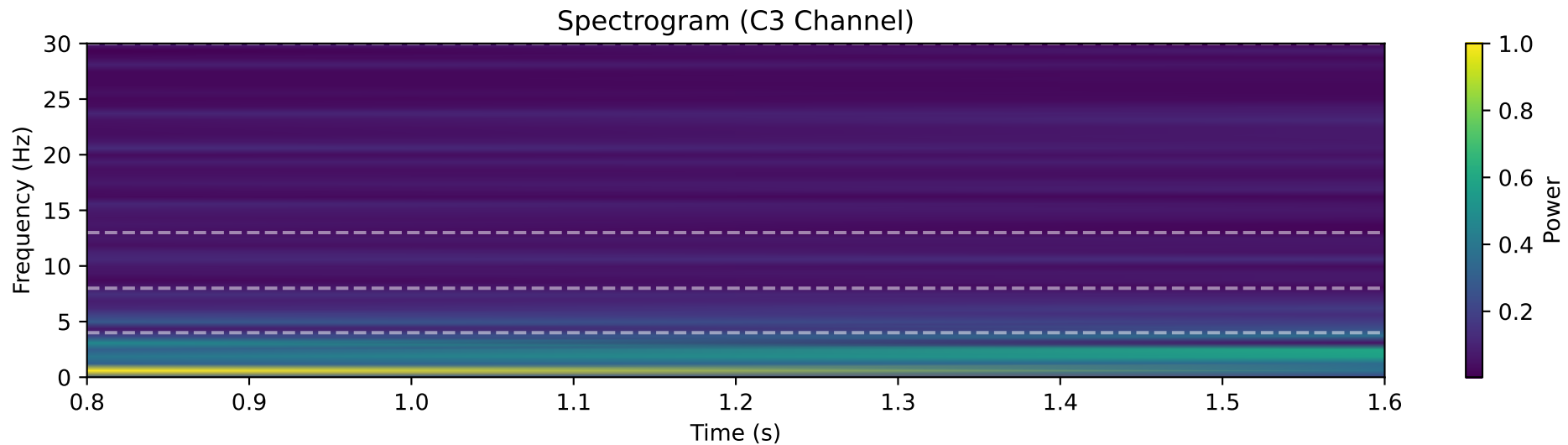
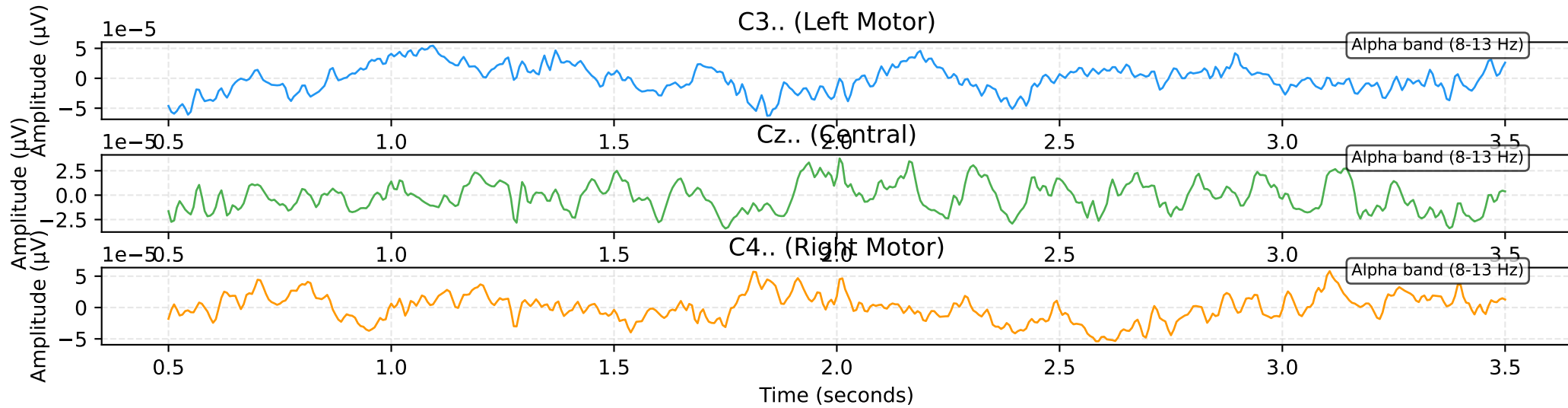
Beta Band (13-30 Hz)



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Brain-Computer Interface: Motor Imagery Analysis

EEG Analysis - Subject 10, RIGHT State



Mental Command: RIGHT

RIGHT HAND IMAGERY: Event-Related Desynchronization (ERD) in left motor cortex (C3).

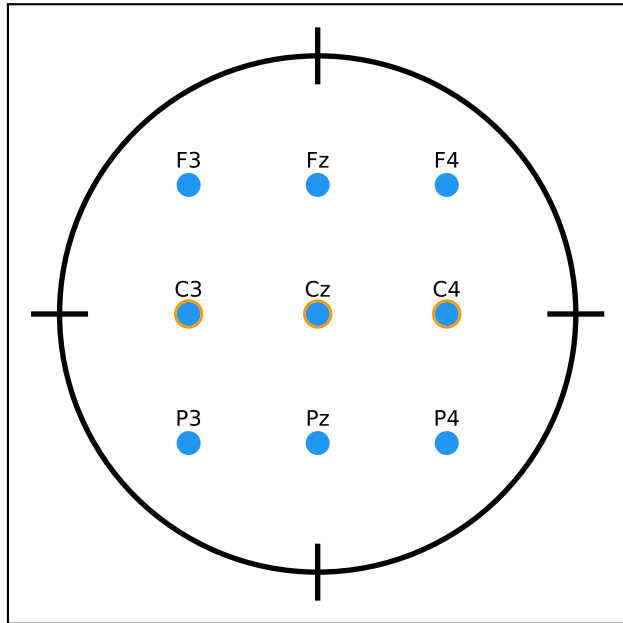
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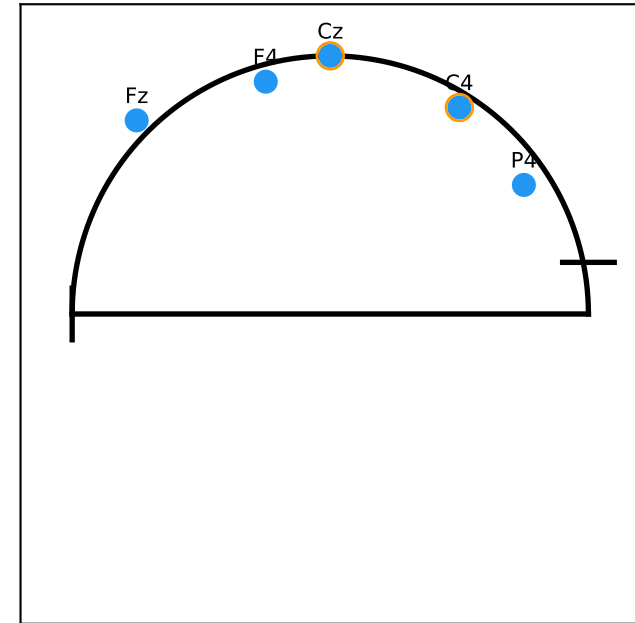
Brain Activity Topography

Subject 10, RIGHT State

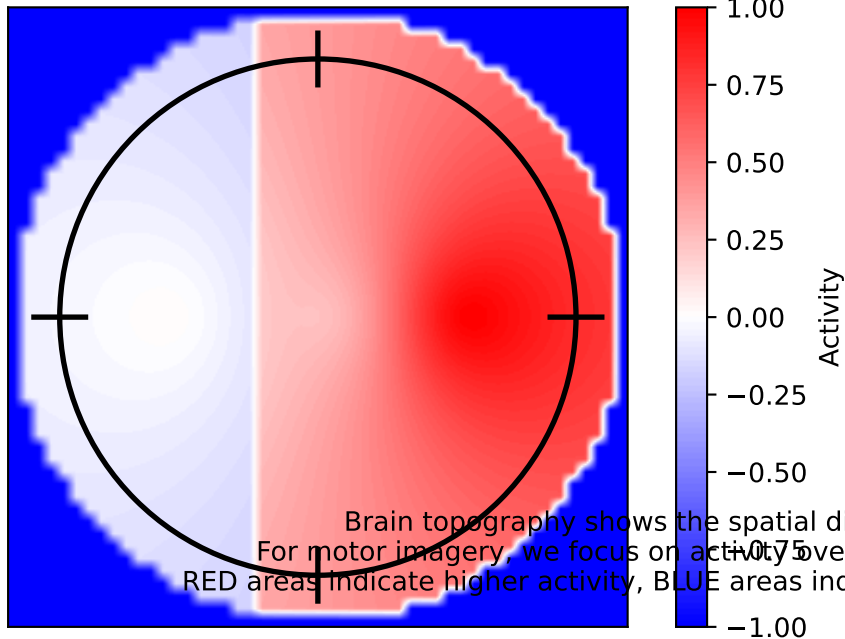
Top View



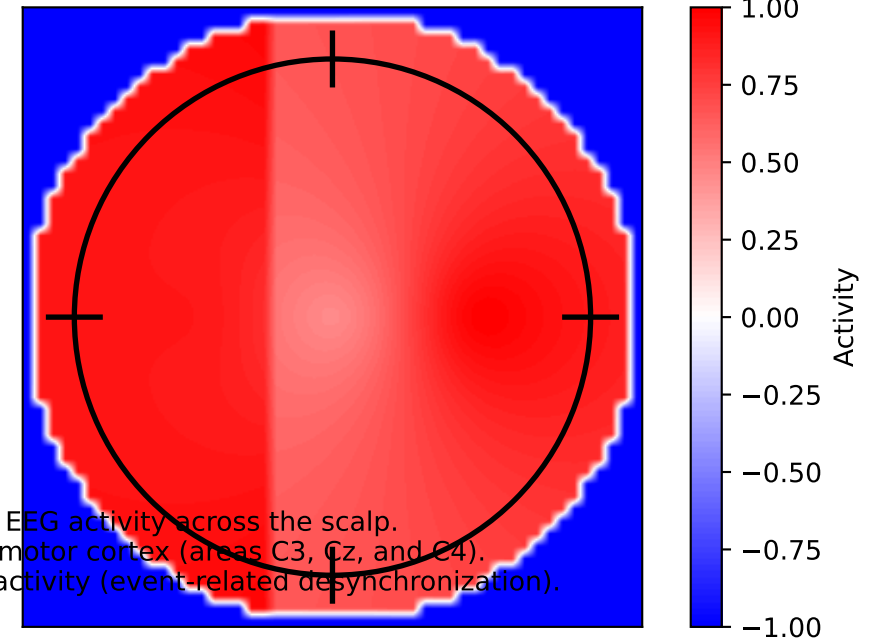
Side View



Alpha Band (8-13 Hz)



Beta Band (13-30 Hz)



Brain topography shows the spatial distribution of EEG activity across the scalp. For motor imagery, we focus on activity over the sensorimotor cortex (areas C3, Cz, and C4). RED areas indicate higher activity, BLUE areas indicate lower activity (event-related desynchronization).