

HearVsLookSwitch (20 clusters)

Joaquín Rapela*

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*rapela@usc.edu

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1 Observations

1. Two symmetric occipital clusters (cluster 6 and 7) show significant differences between shifting attention to vision or audition. The spectrum shows significantly lower power in the alpha and beta bands for shifting to vision than to audition ($p < 0.05$). The ERSP shows a larger and more extended alpha desynchronization for shifting attention to vision than to audition. This makes sense, since these visual components should be more sensitive to shifts in attention to vision than to audition.
2. A central cluster (cluster 14) also shows significant differences. The ERP of the cluster has a significantly larger N1 and a larger P3a and P3b in shifts of attention to audition than to vision. Thus, this component seems more sensitive to shifts in attention to audition than to vision. It is reasonable that a central source is better tuned to auditory stimuli. The spectra are similar, but the ERSP shows a larger high theta synchronization and a later (around 500 ms) alpha desynchronization for shifting to vision than to audition.

2 Cluster 3

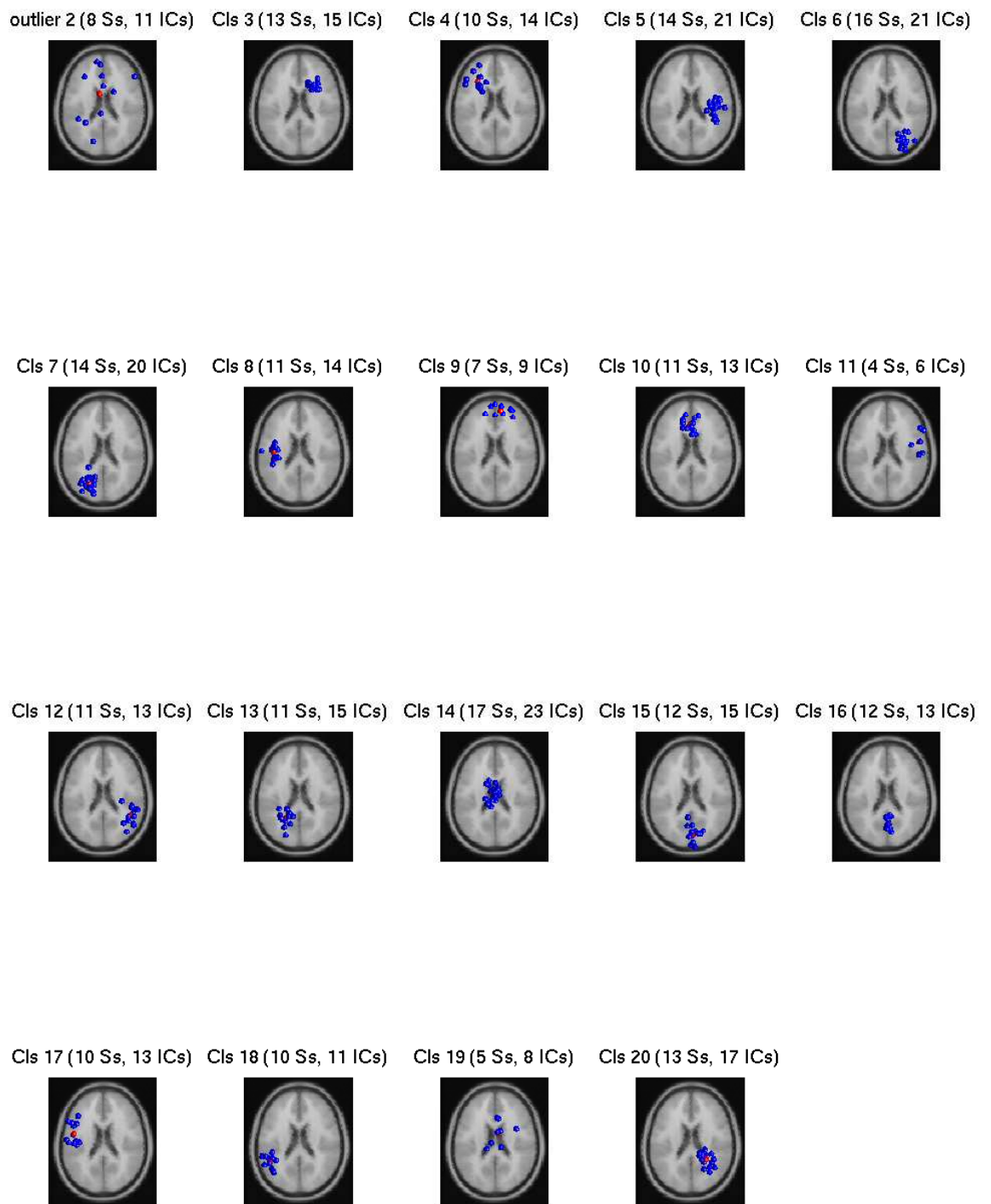


Figure 1: Clusters dipoles

16 dipoles:

Plot one

Keep|Next

Next

Prev

Keep|Prev

1

av101a, IC5

RV: 2.77%

X tal: 30

Y tal: 10

Z tal: 34

Display:

Mesh on

Tight view

Sagittal vi...

Coronal v...

Top view

No contro...

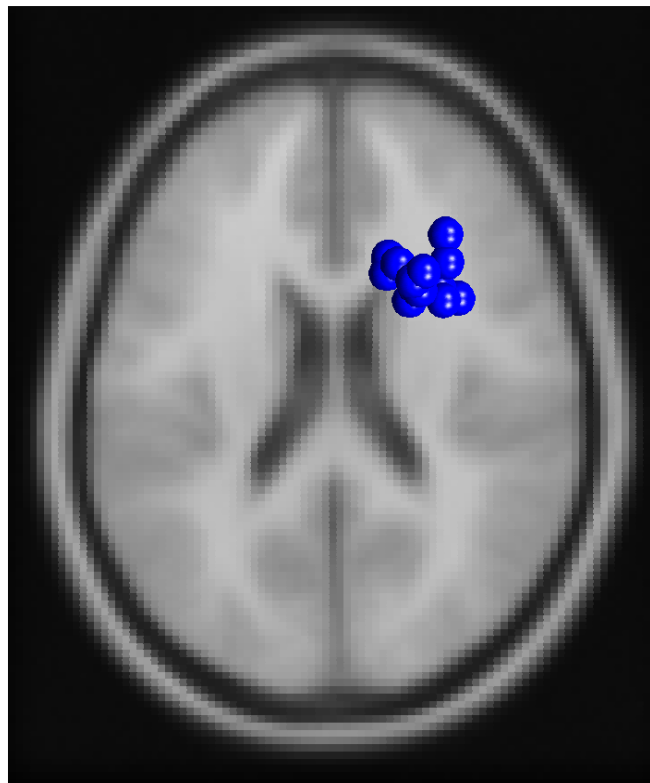


Figure 2: Cluster 03: dipoles

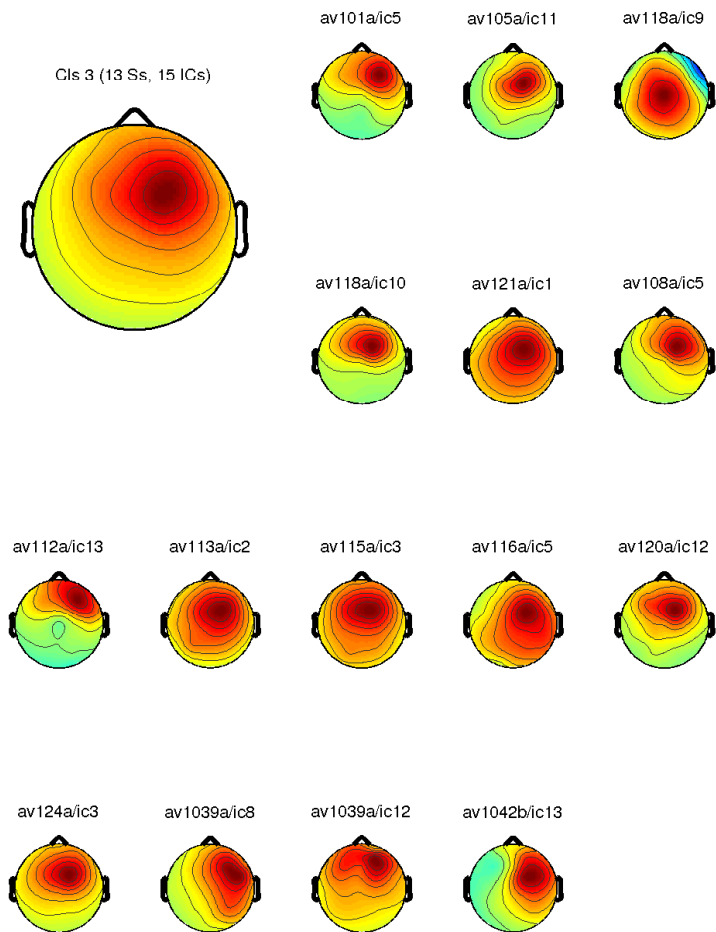


Figure 3: Cluster 03: scalp maps

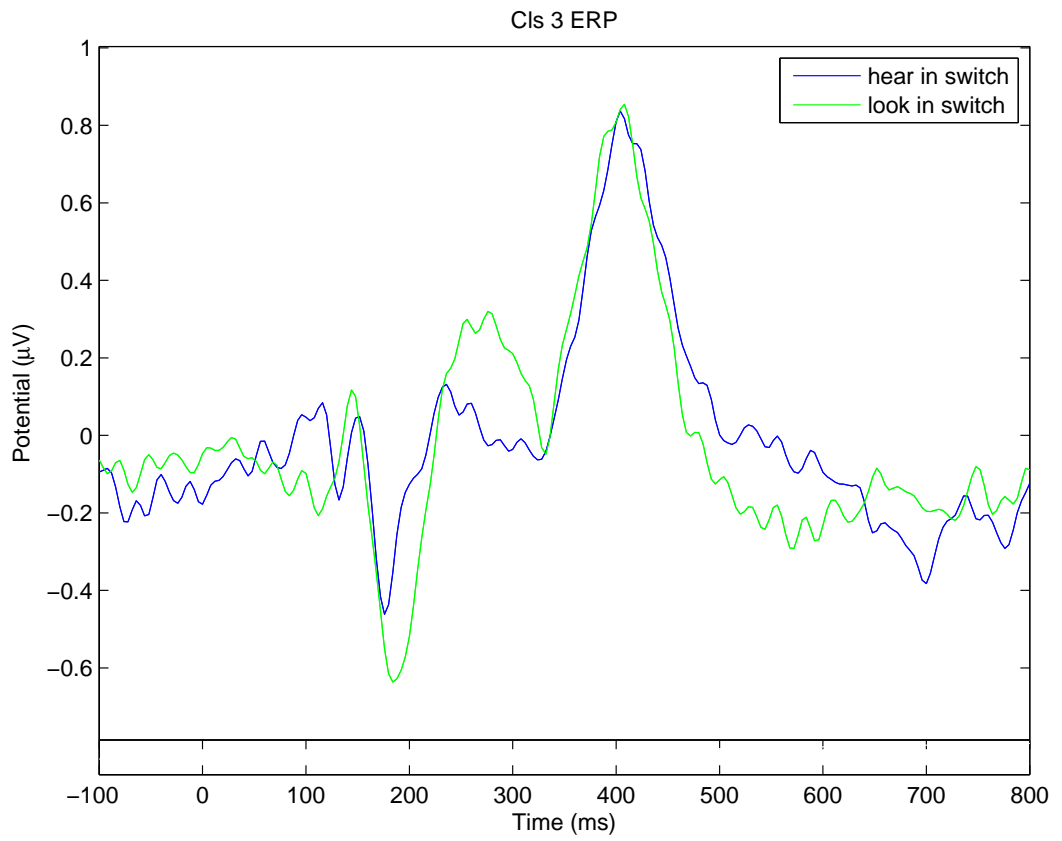


Figure 4: Cluster 03: ERP

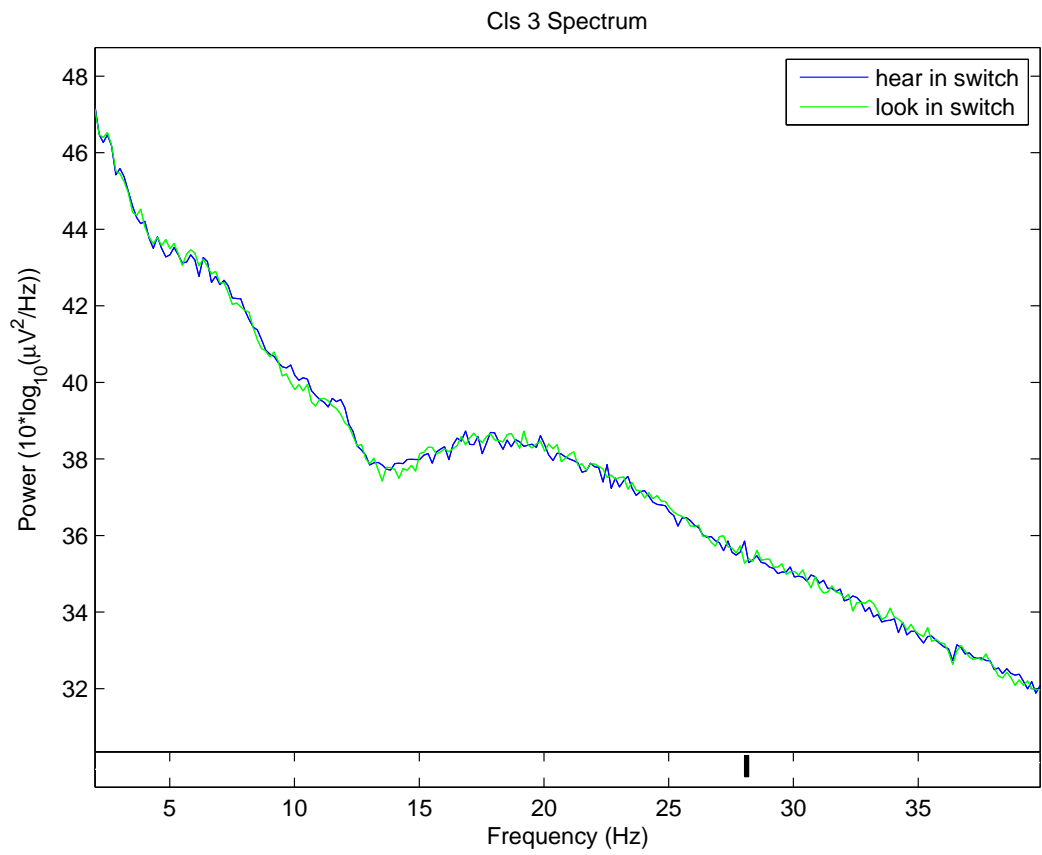


Figure 5: Cluster 03: Spectra

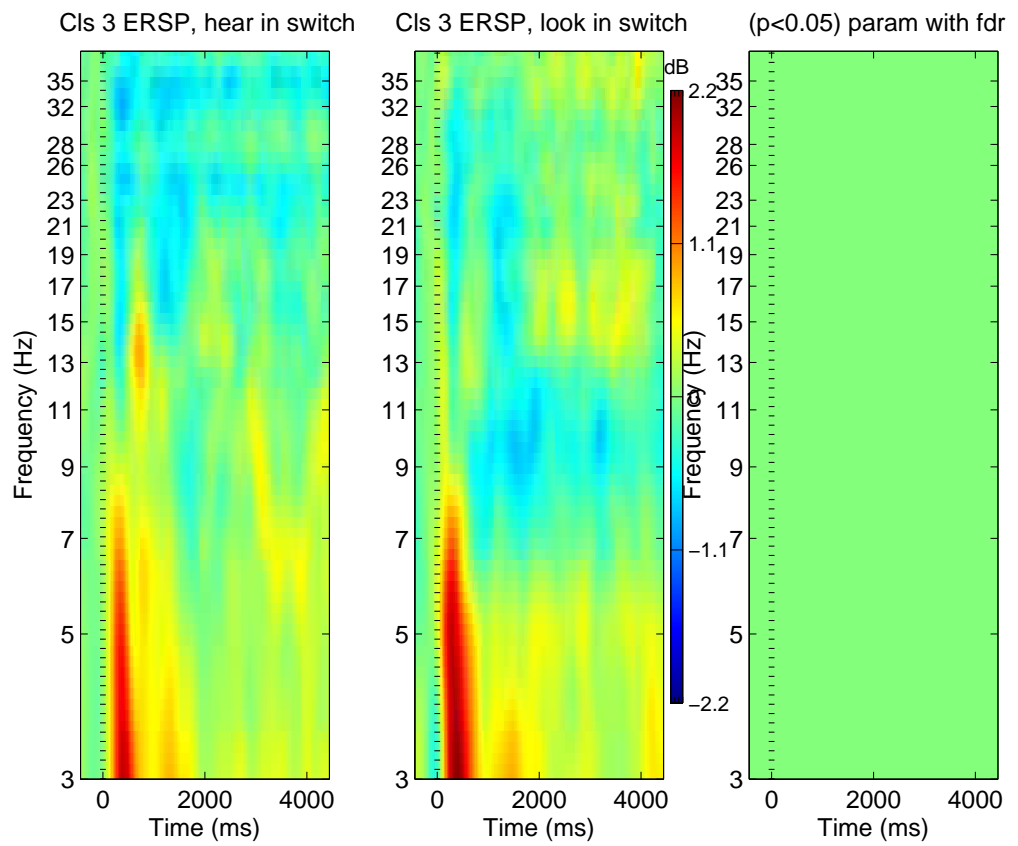


Figure 6: Cluster 03: ERSP

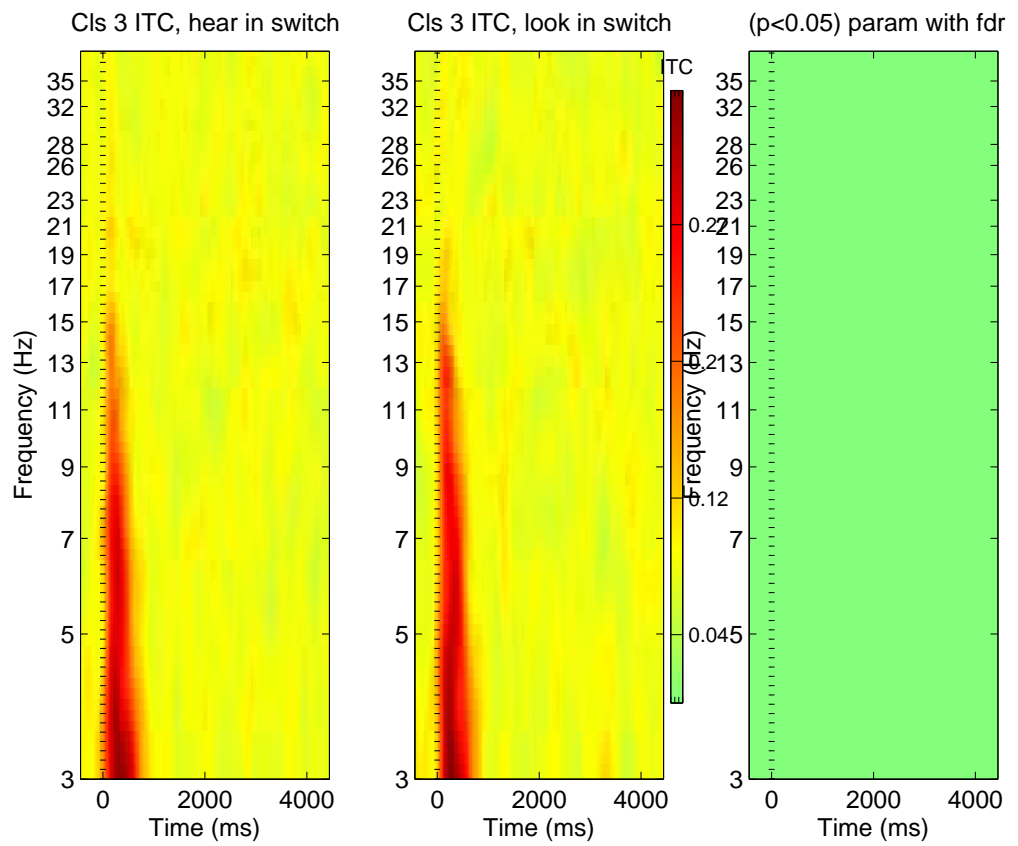


Figure 7: Cluster 03: ITC

15 dipoles:
Plot one
Keep|Next
Next
Prev
Keep|Prev
1
av101a,
RV: 3.55%
X tal: -20
Y tal: 7
Z tal: 47
Display:
Mesh on
Tight view
Sagittal vi...
Coronal v...
Top view
No contro...

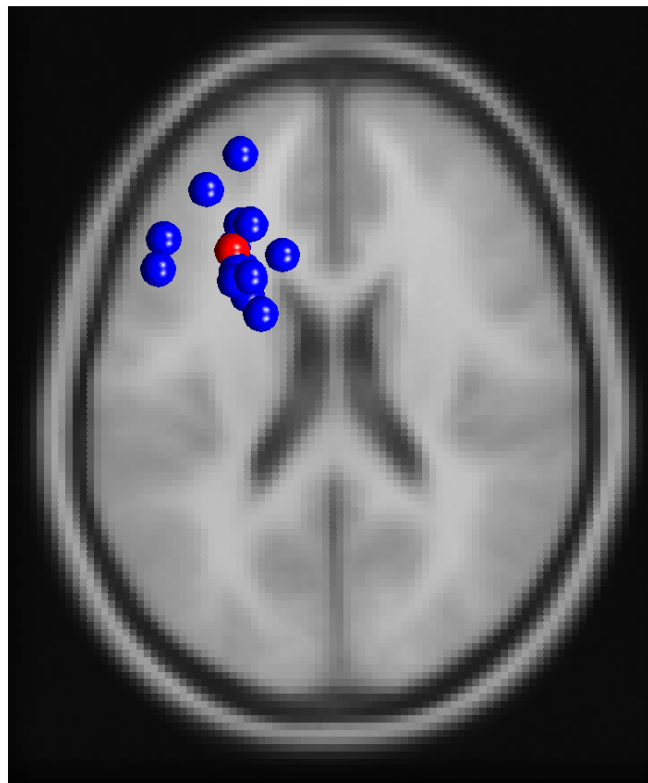


Figure 8: Cluster 04: dipoles

3 Cluster 4

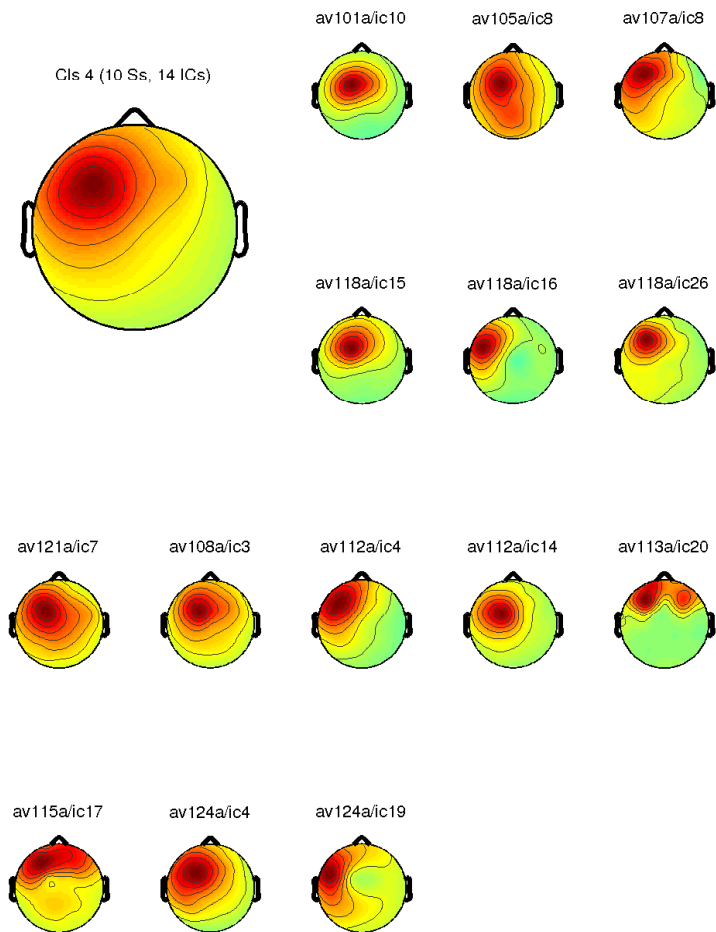


Figure 9: Cluster 04: scalp maps

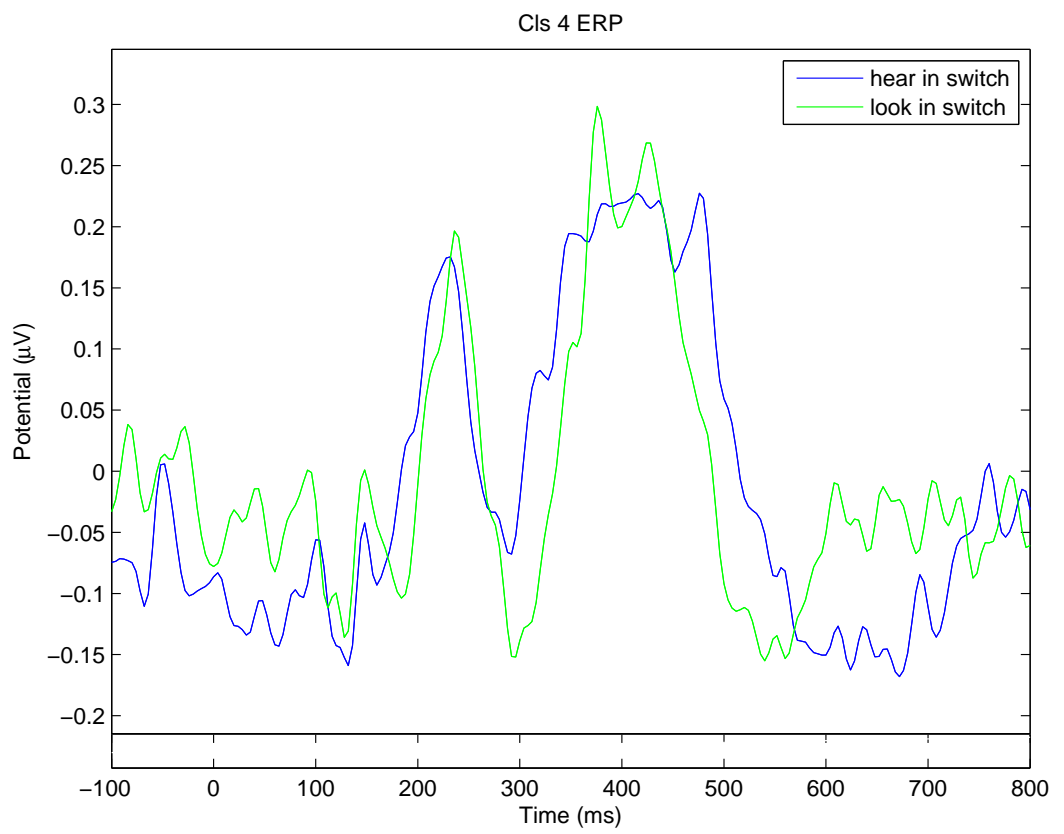


Figure 10: Cluster 04: ERP

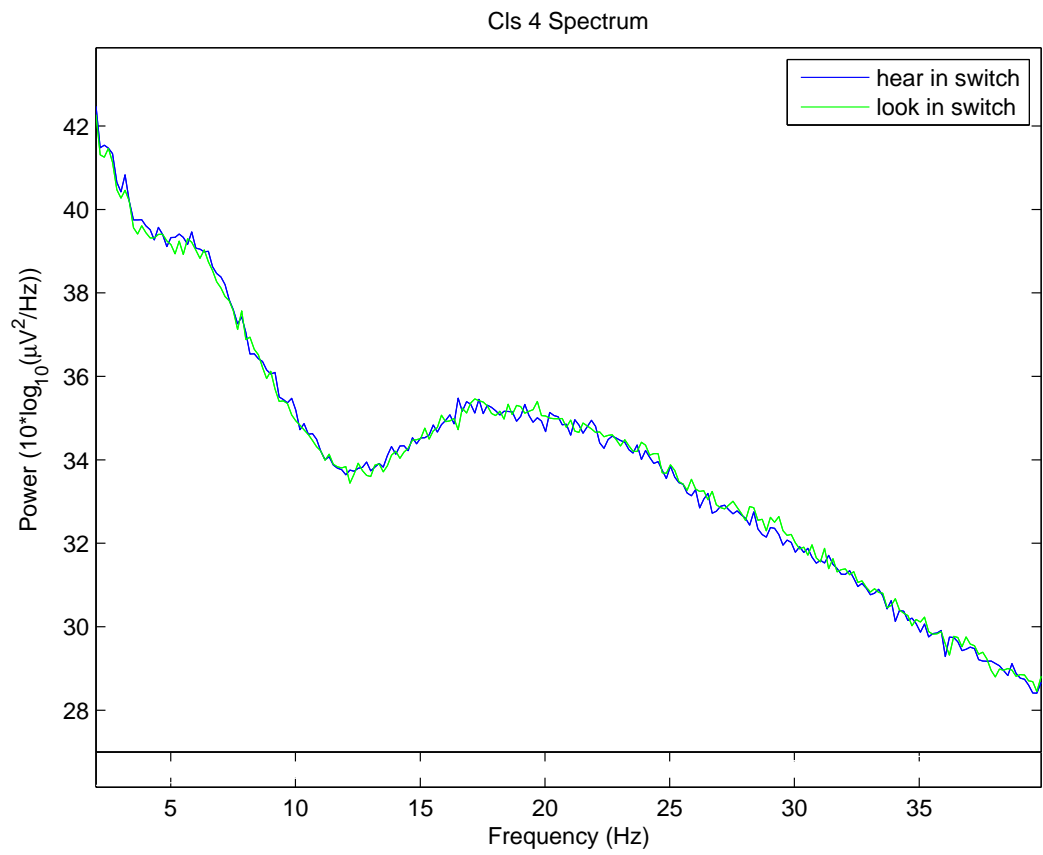


Figure 11: Cluster 04: Spectra

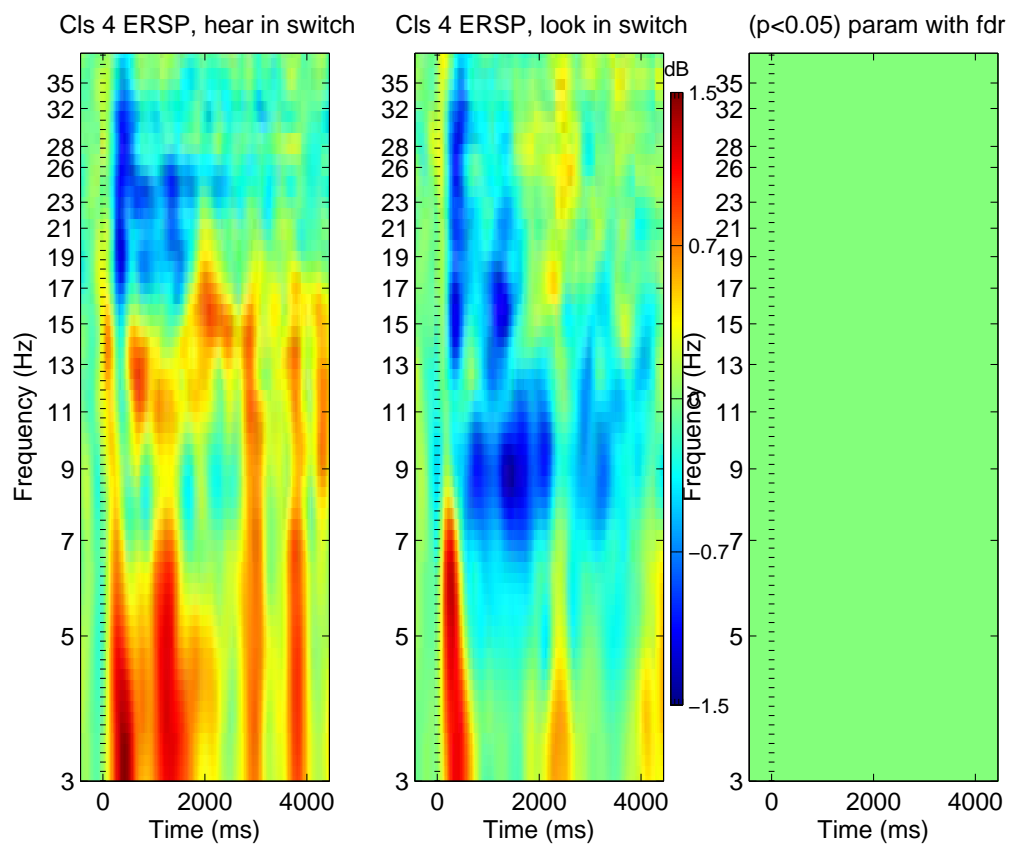


Figure 12: Cluster 04: ERSP

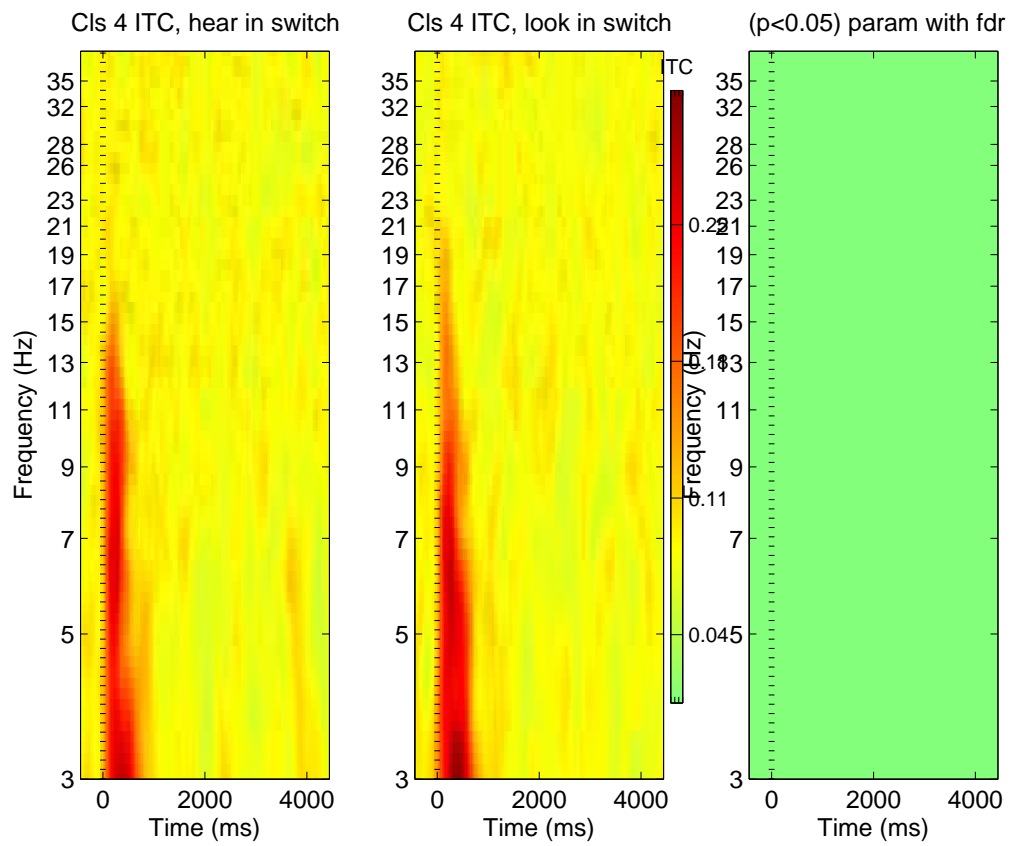


Figure 13: Cluster 04: ITC

22 dipoles:
Plot one
Keep|Next
Next
Prev
Keep|Prev
1
av101a,
RV: 1.23%
X tal: 43
Y tal: -39
Z tal: 34
Display:
Mesh on
Tight view
Sagittal vi...
Coronal v...
Top view
No contro...

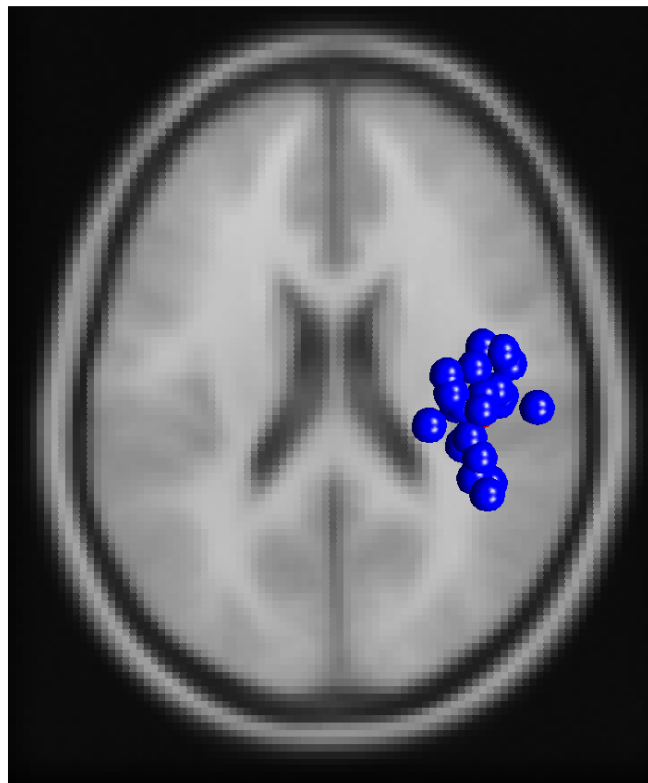


Figure 14: Cluster 05: dipoles

4 Cluster 5

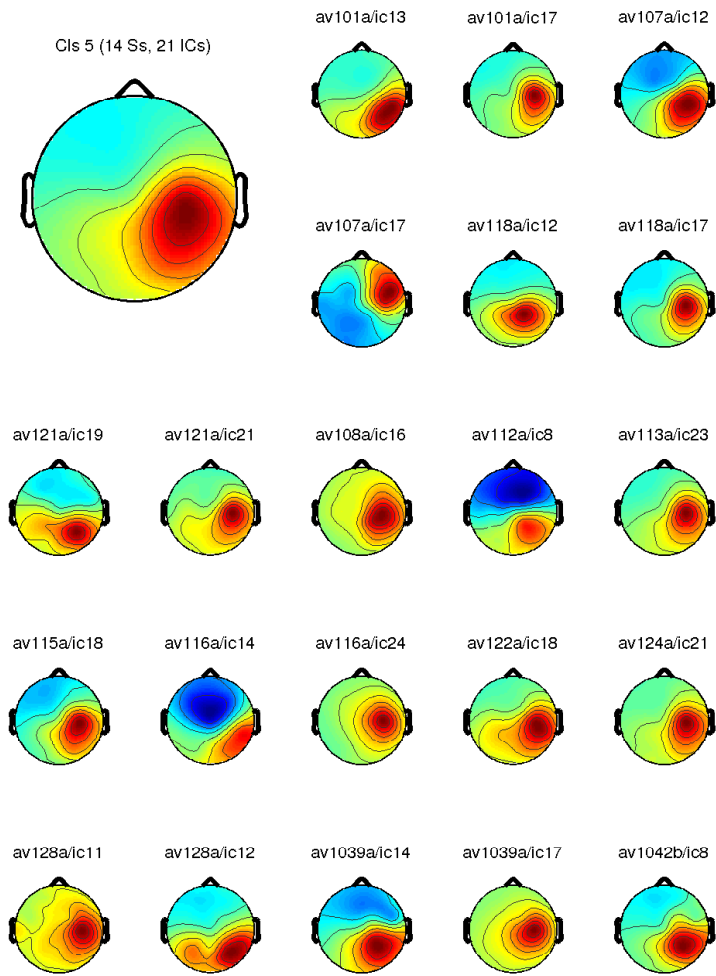


Figure 15: Cluster 05: scalp maps

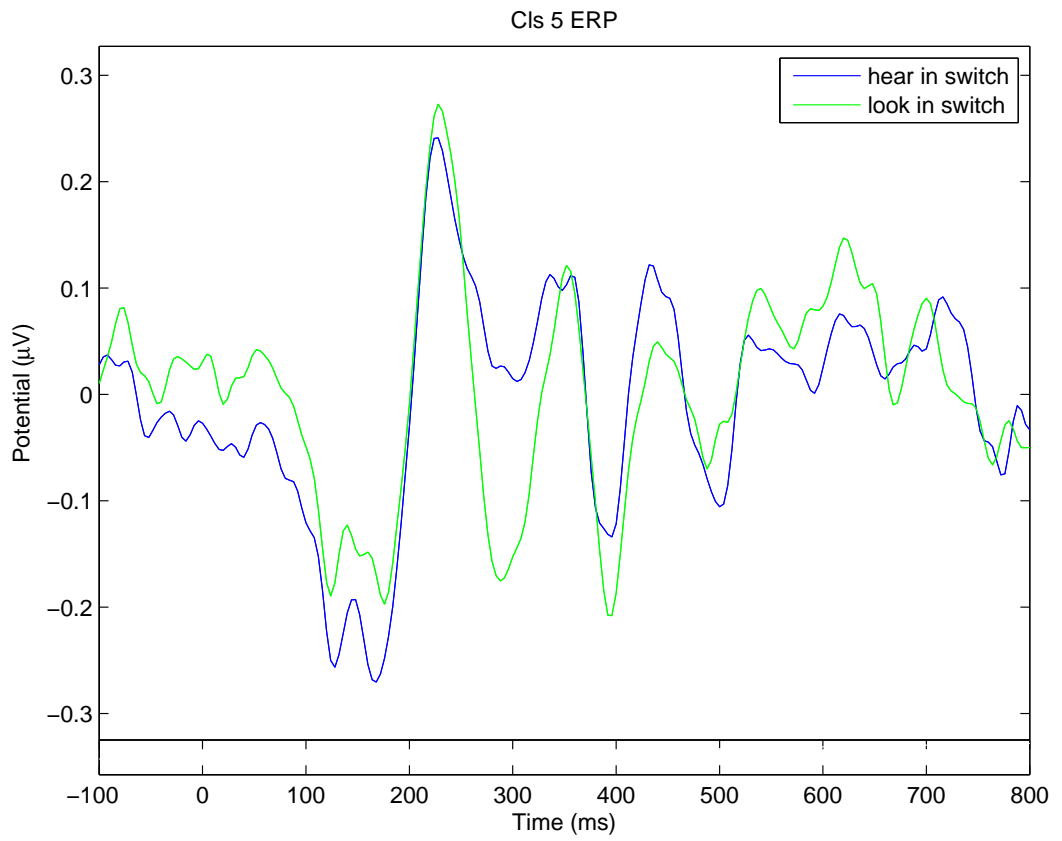


Figure 16: Cluster 05: ERP

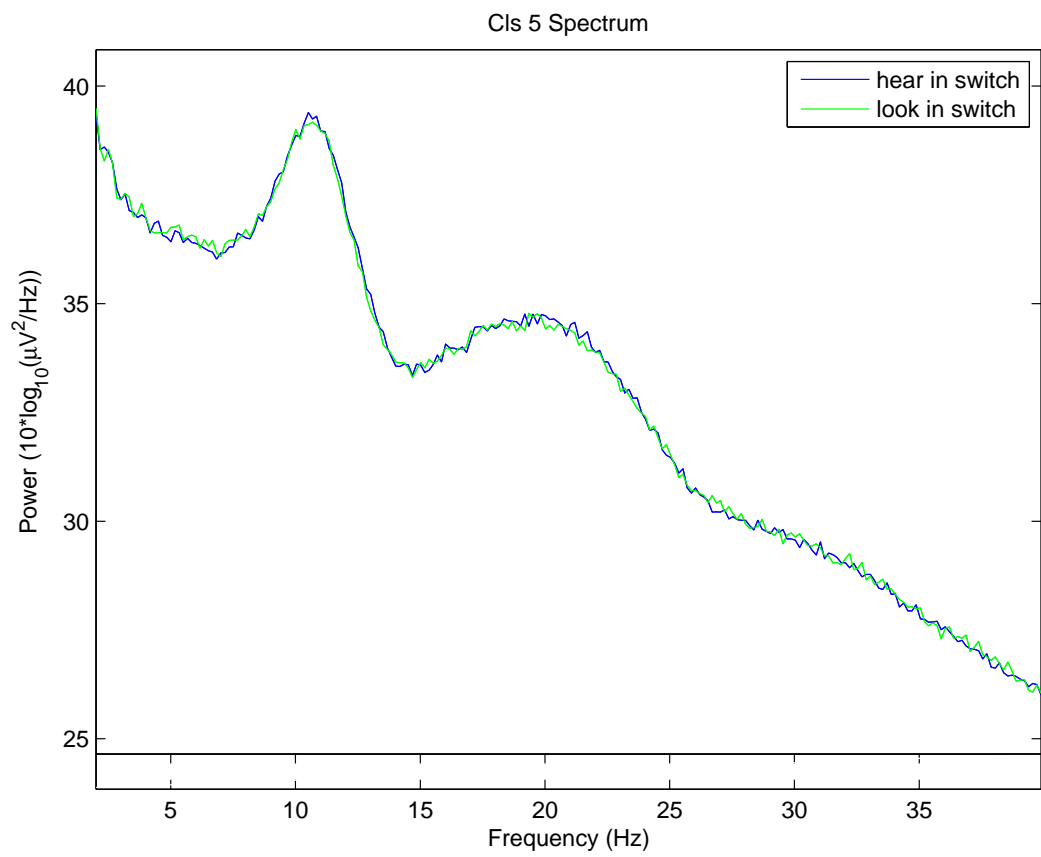


Figure 17: Cluster 05: Spectra

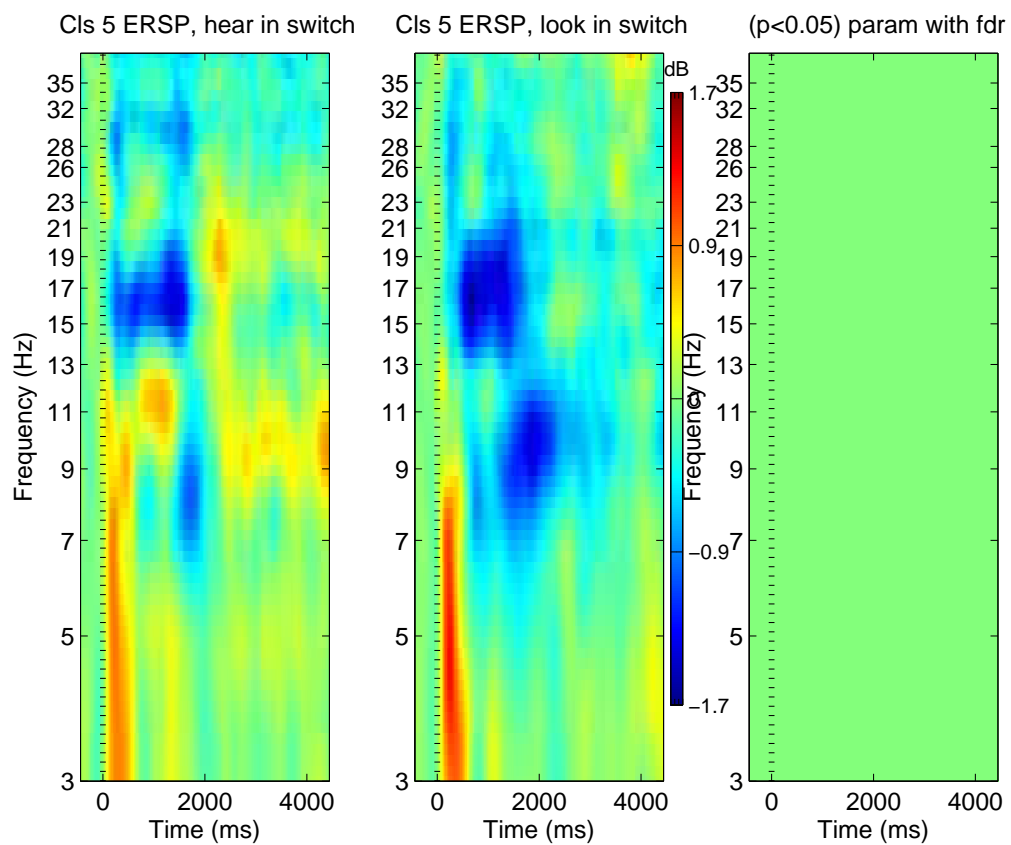


Figure 18: Cluster 05: ERSP

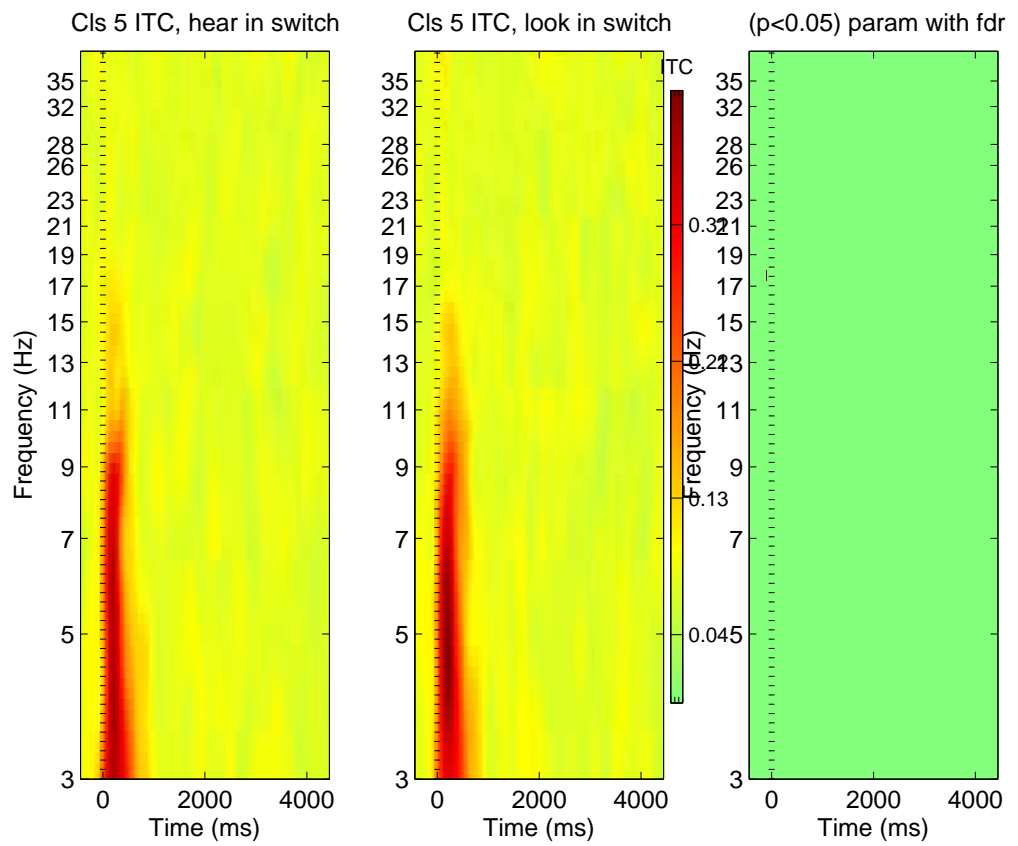


Figure 19: Cluster 05: ITC

22 dipoles:
Plot one
Keep|Next
Next
Prev
Keep|Prev
1
av101a, IC6
RV: 0.88%
X tal: 23
Y tal: -87
Z tal: 10
Display:
Mesh on
Tight view
Sagittal vi...
Coronal v...
Top view
No contro...

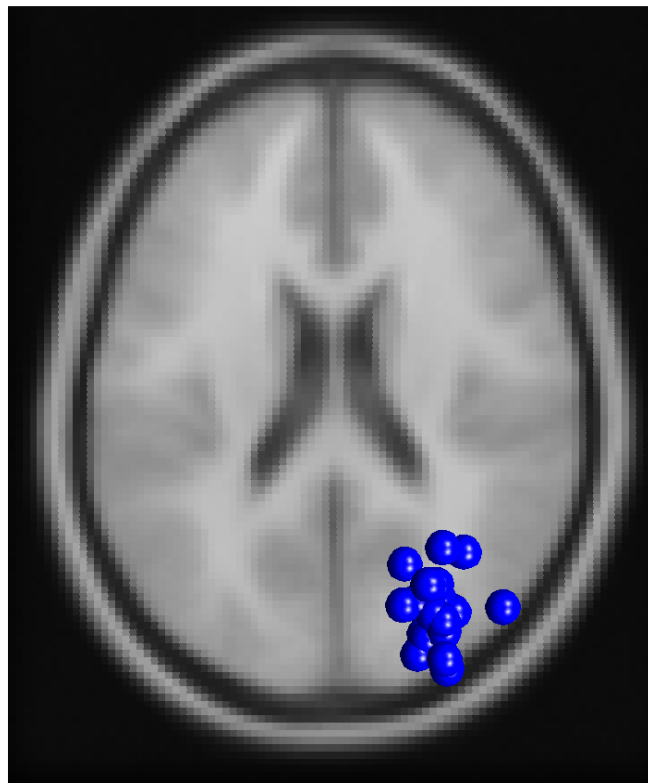


Figure 20: Cluster 06: dipoles

5 Cluster 6

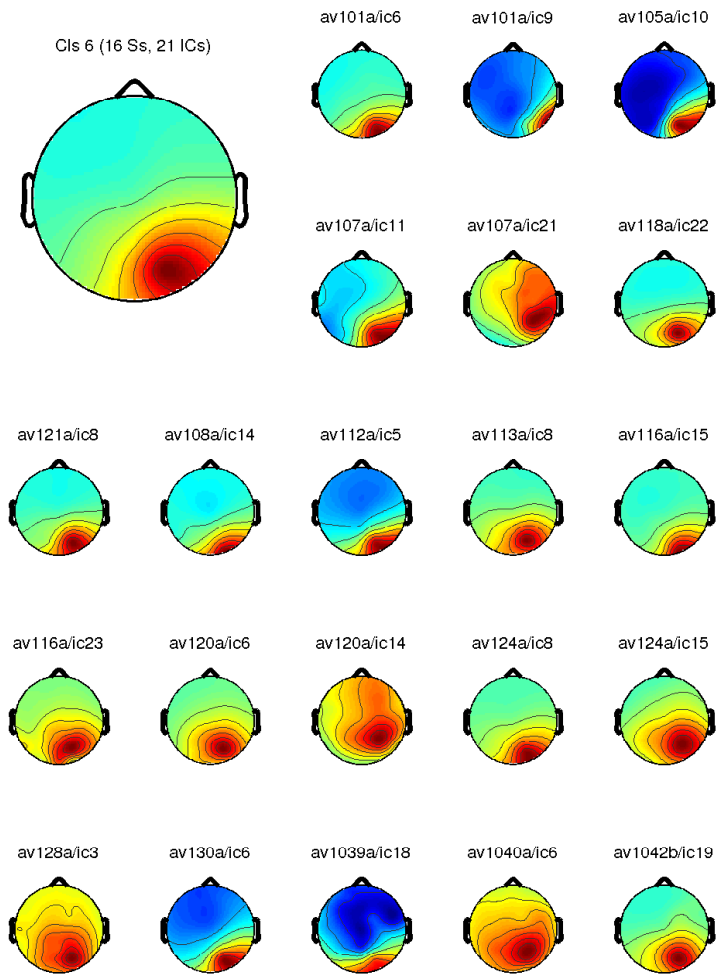


Figure 21: Cluster 06: scalp maps

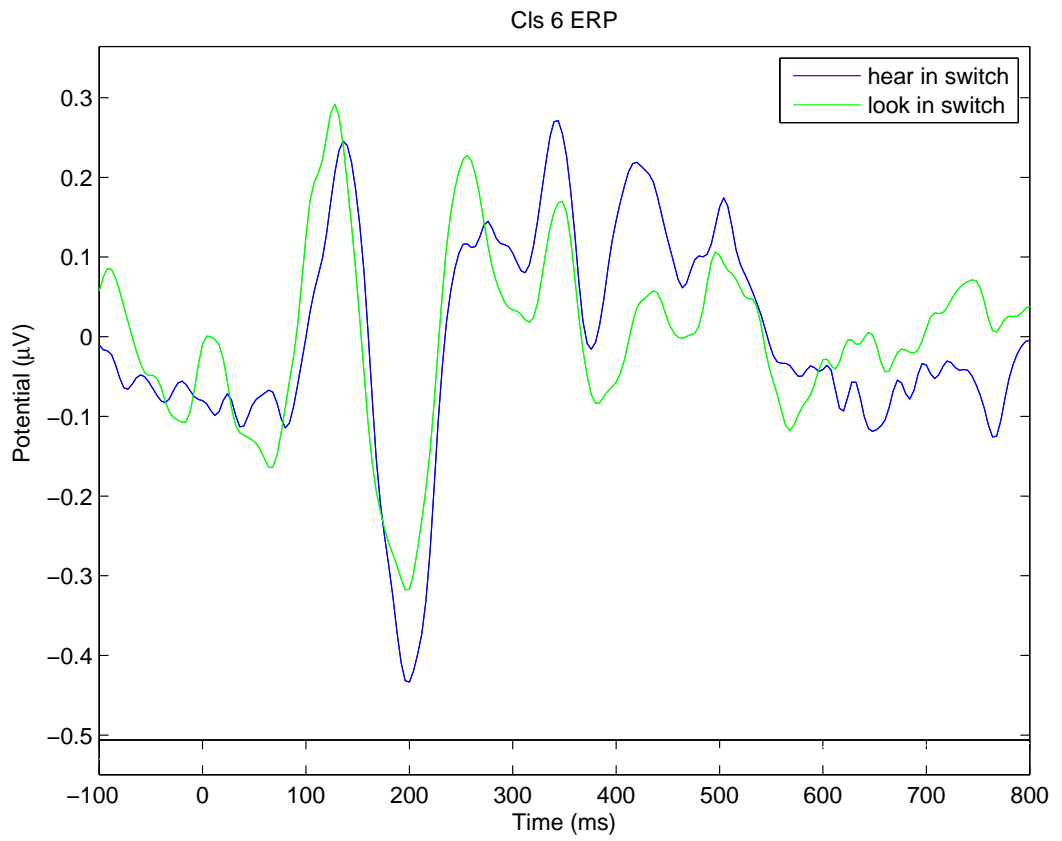


Figure 22: Cluster 06: ERP

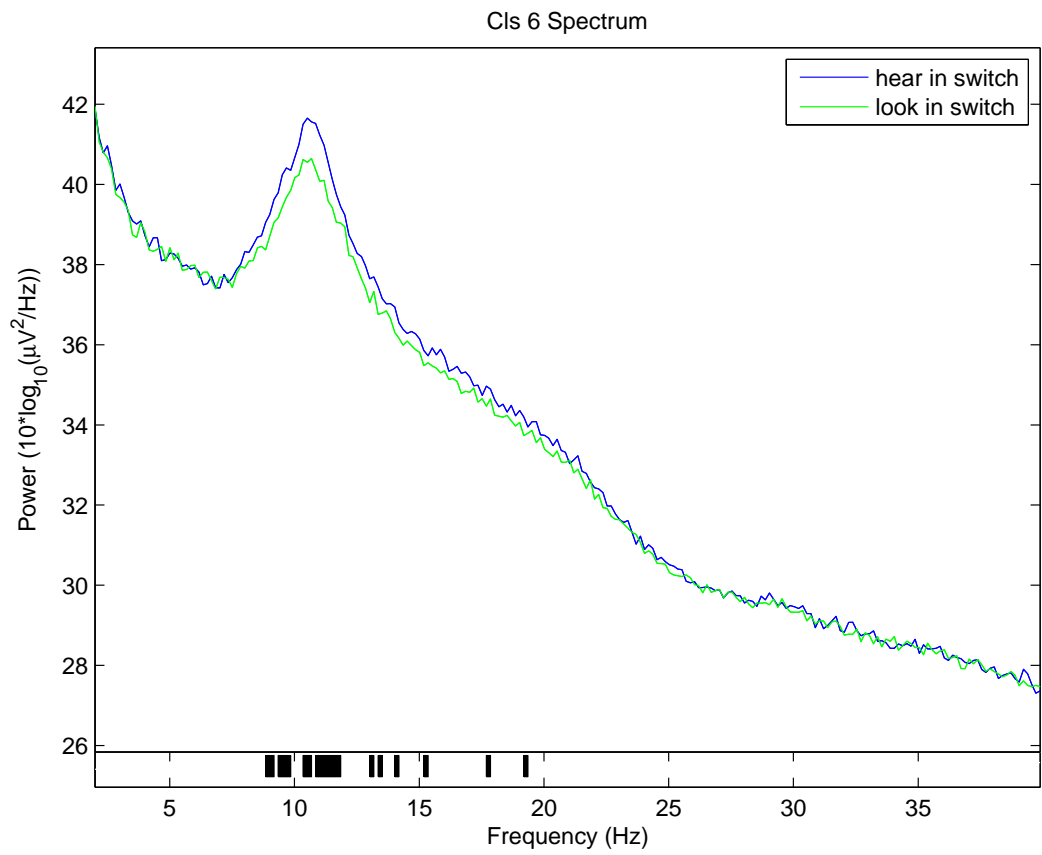


Figure 23: Cluster 06: Spectra

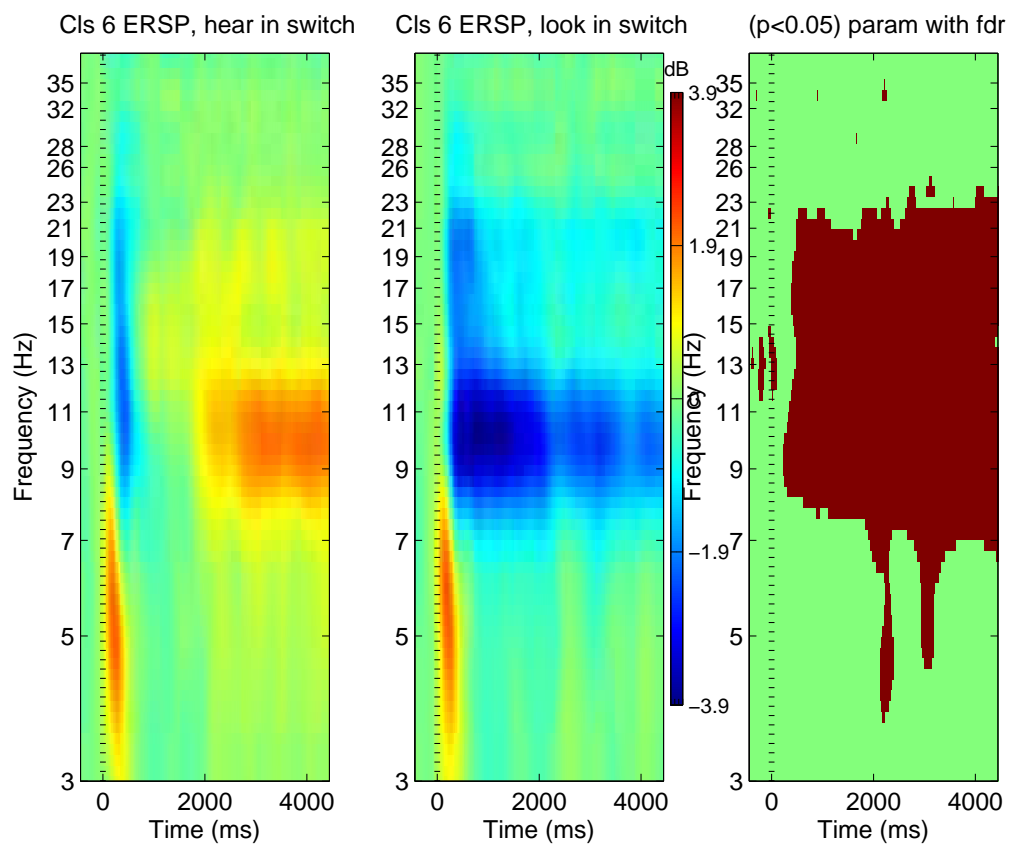


Figure 24: Cluster 06: ERSP

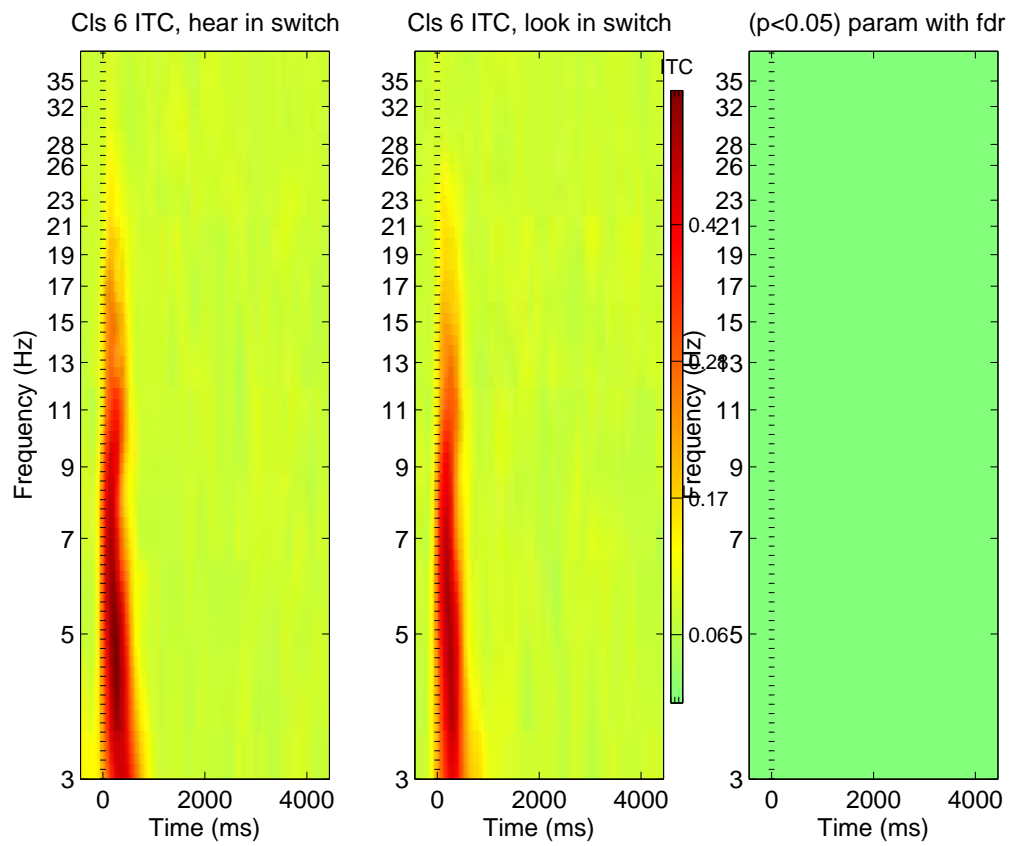


Figure 25: Cluster 06: ITC

21 dipoles:
 Plot one
 Keep|Next
 Next
 Prev
 Keep|Prev
 1
 av101a, IC7
 RV: 1.53%
 X tal: -19
 Y tal: -74
 Z tal: 9
Display:
 Mesh on
 Tight view
 Sagittal vi...
 Coronal v...
 Top view
No contro...

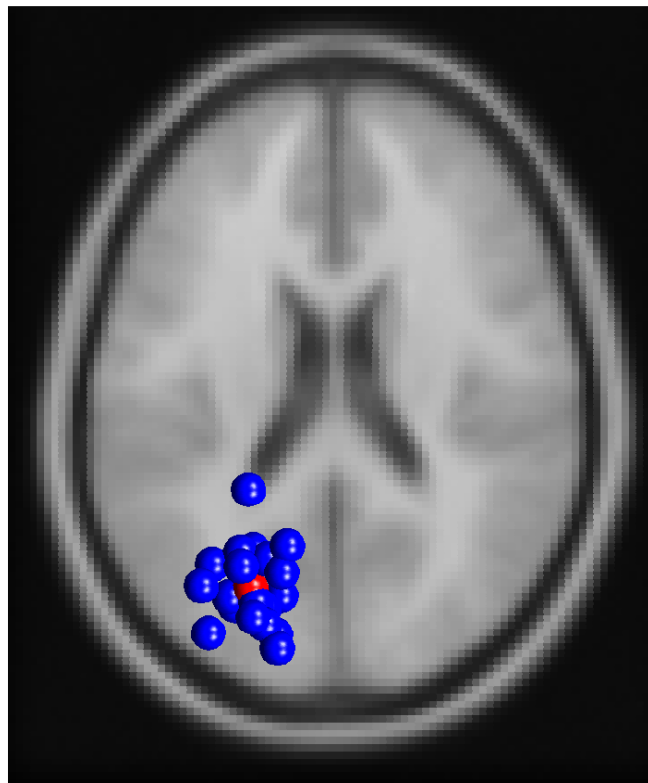


Figure 26: Cluster 07: dipoles

6 Cluster 7

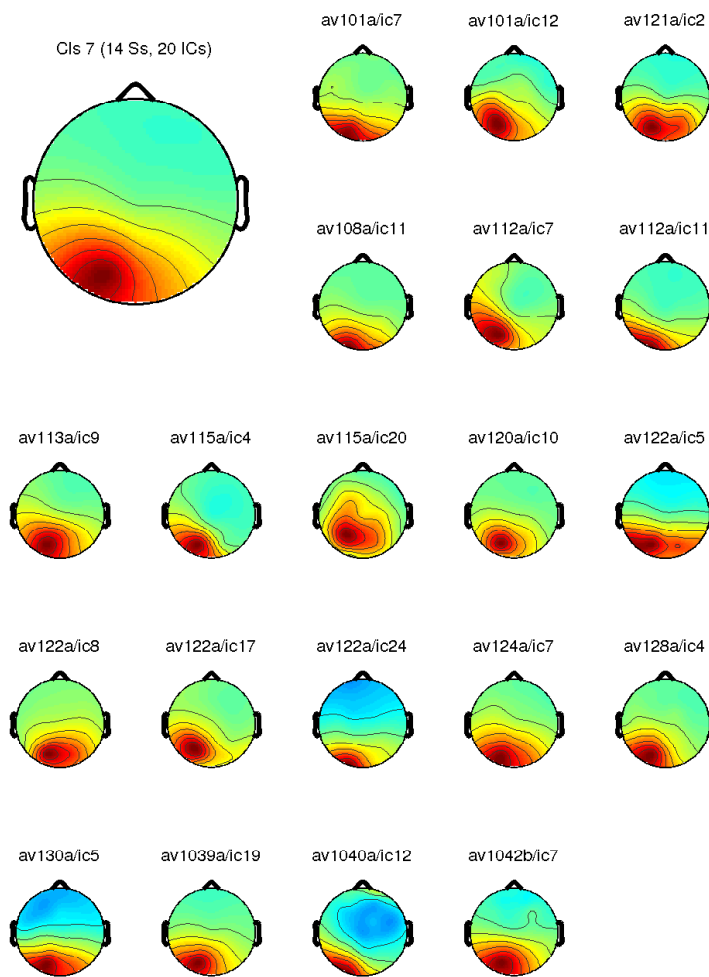


Figure 27: Cluster 07: scalp maps

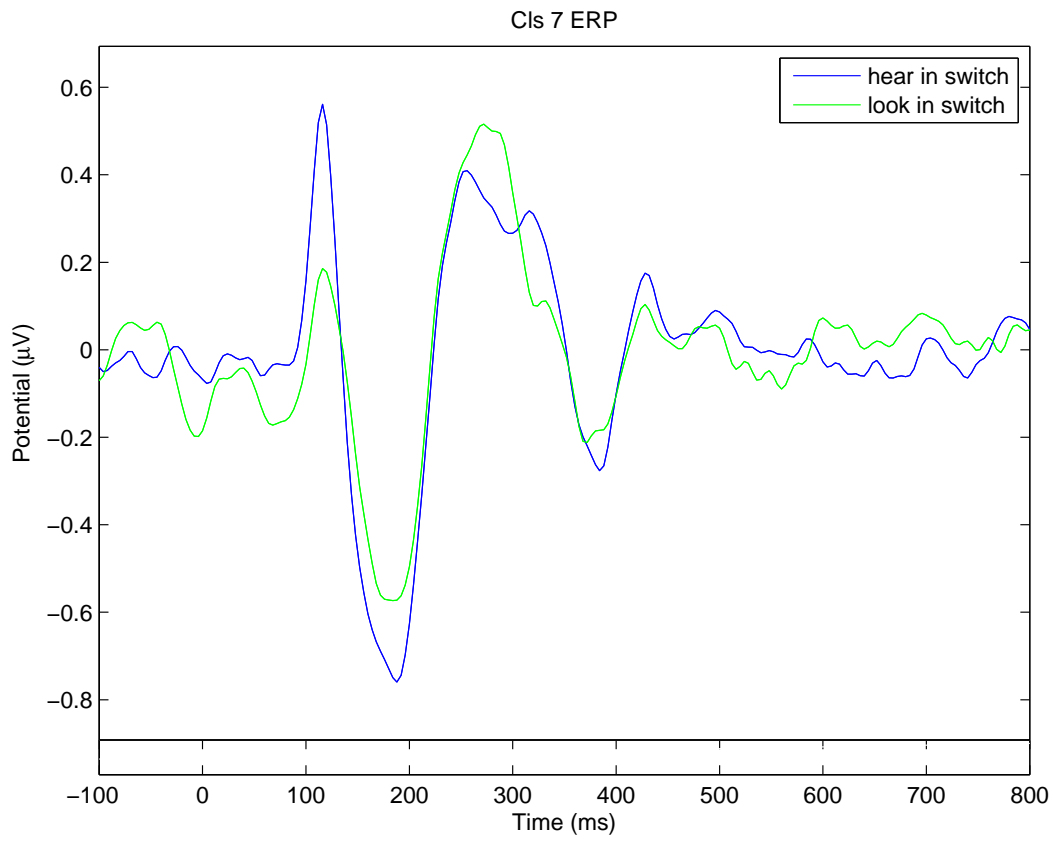


Figure 28: Cluster 07: ERP

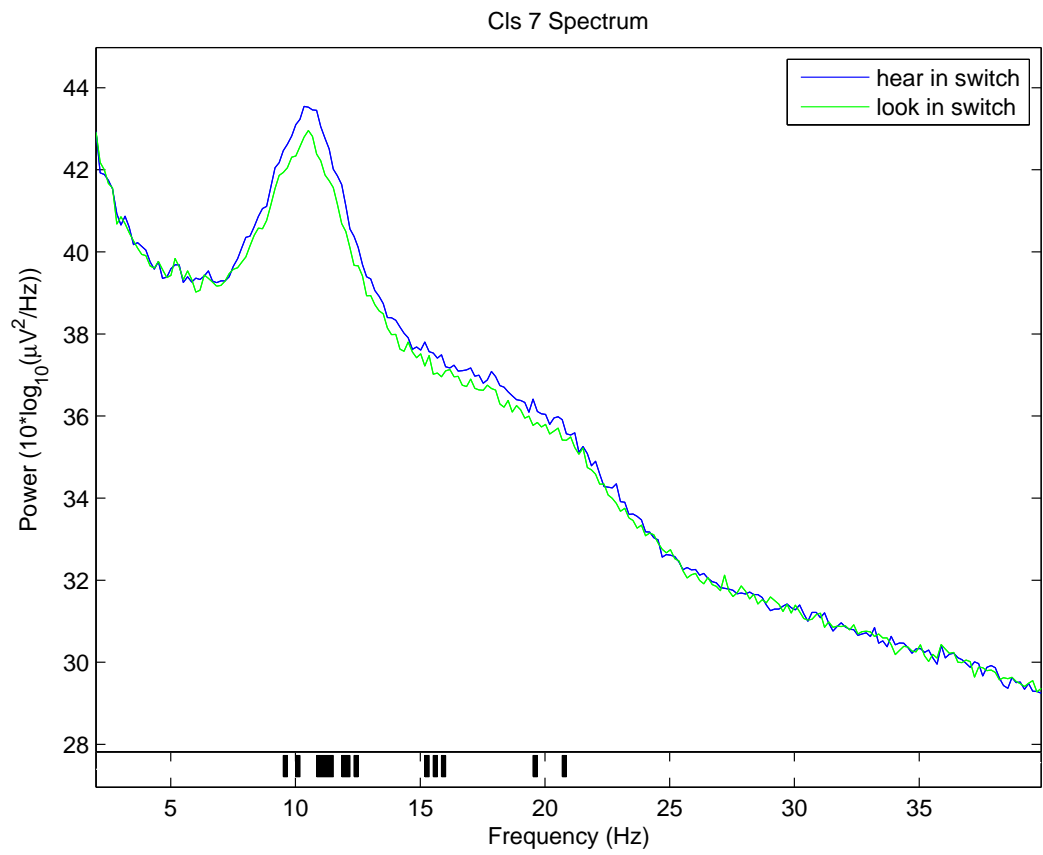


Figure 29: Cluster 07: Spectra

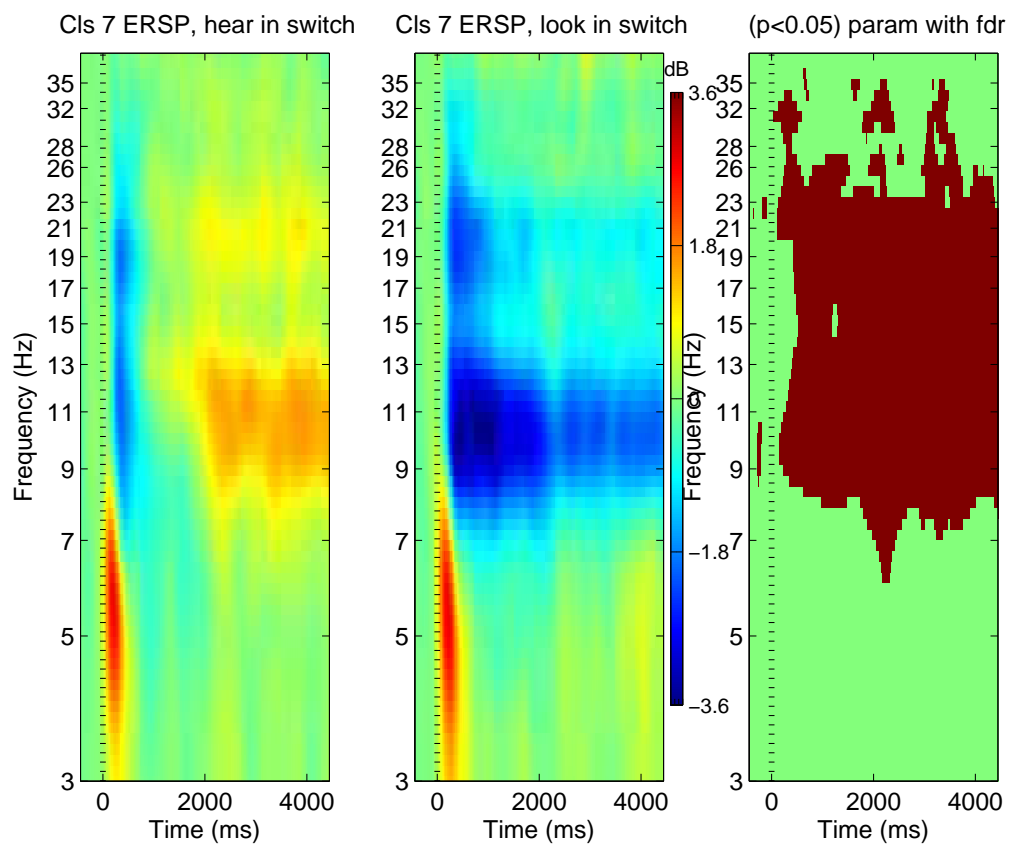


Figure 30: Cluster 07: ERSP

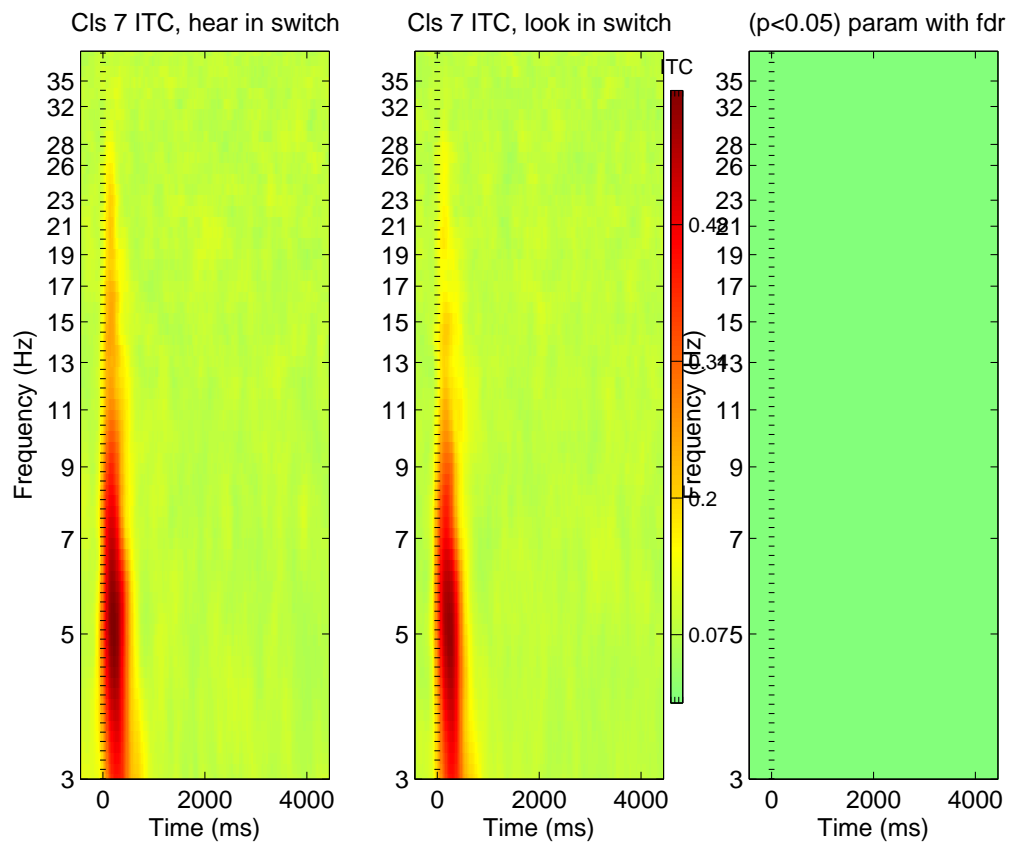


Figure 31: Cluster 07: ITC

15 dipoles:

Plot one

Keep|Next

Next

Prev

Keep|Prev

1

av101a,
RV: 2.33%
X tal: -35
Y tal: -25
Z tal: 53

Display:

Mesh on

Tight view

Sagittal vi...

Coronal v...

Top view

No contro...

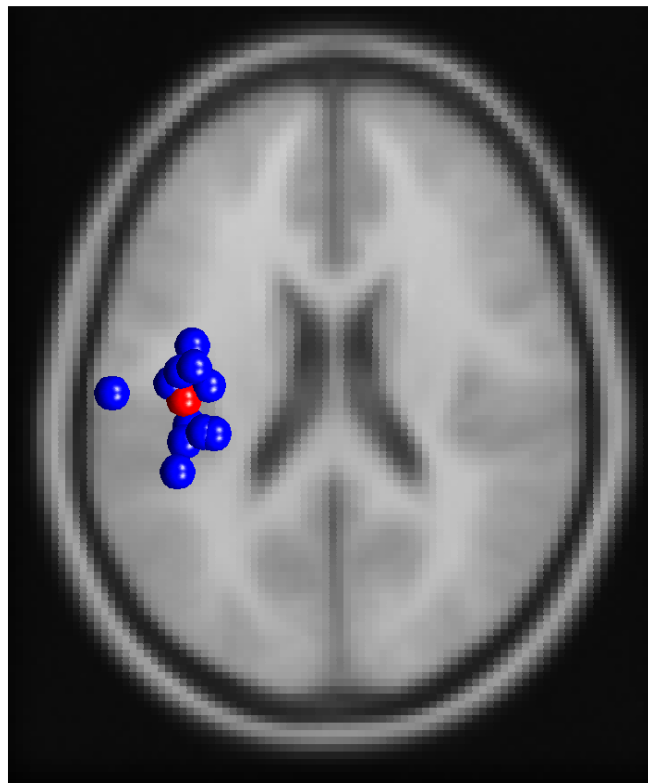


Figure 32: Cluster 08: dipoles

7 Cluster 8

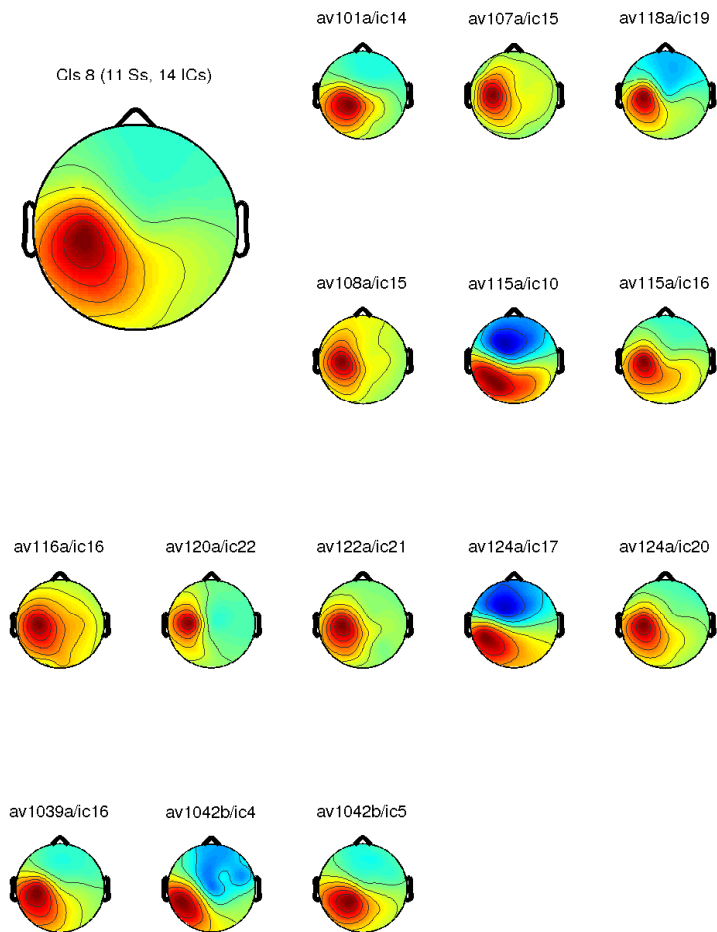


Figure 33: Cluster 08: scalp maps

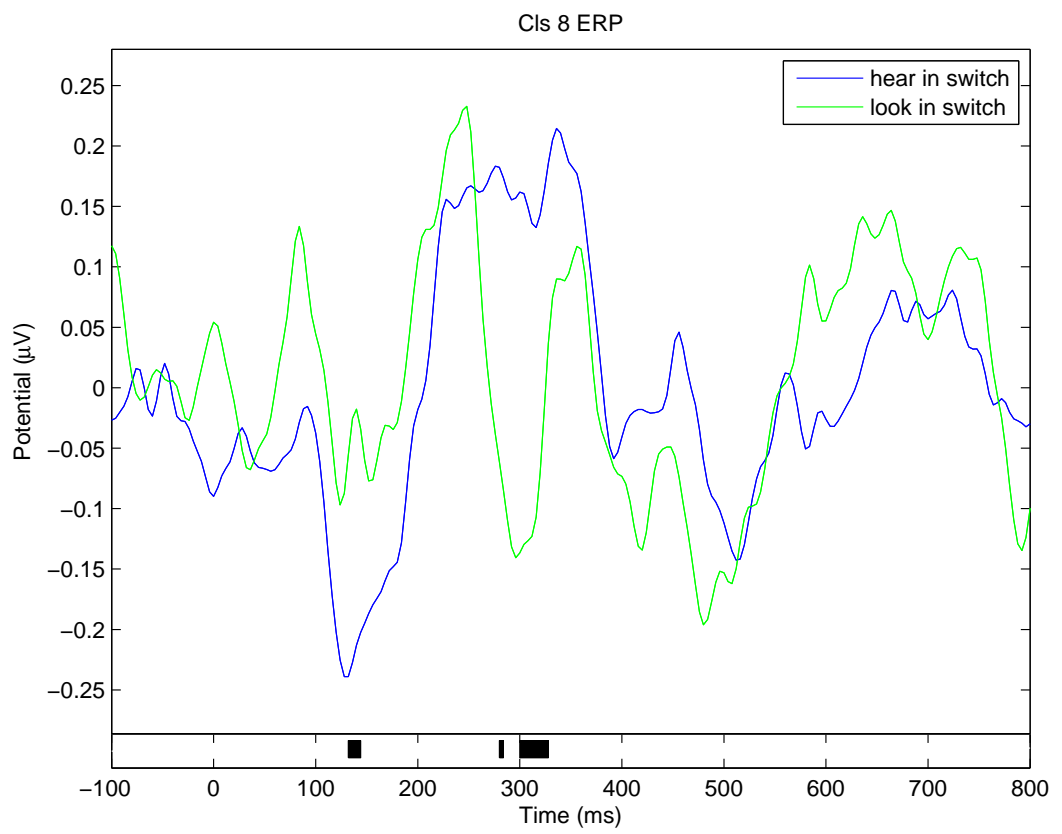


Figure 34: Cluster 08: ERP

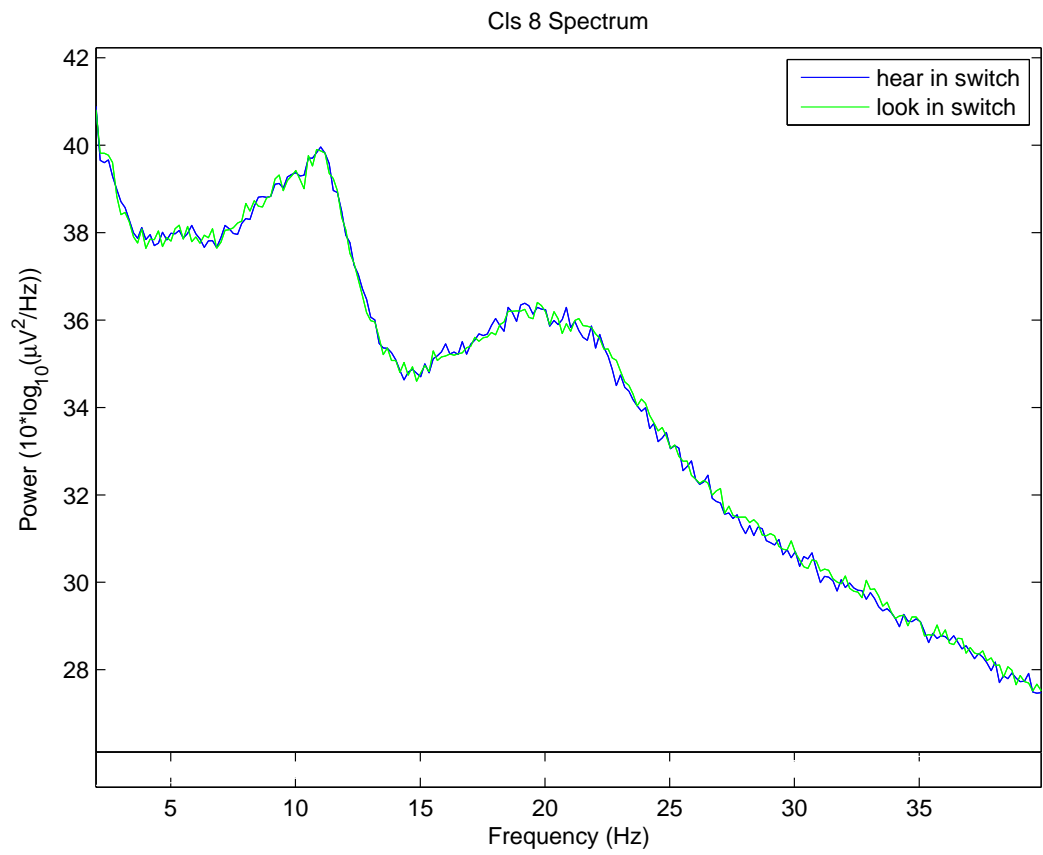


Figure 35: Cluster 08: Spectra

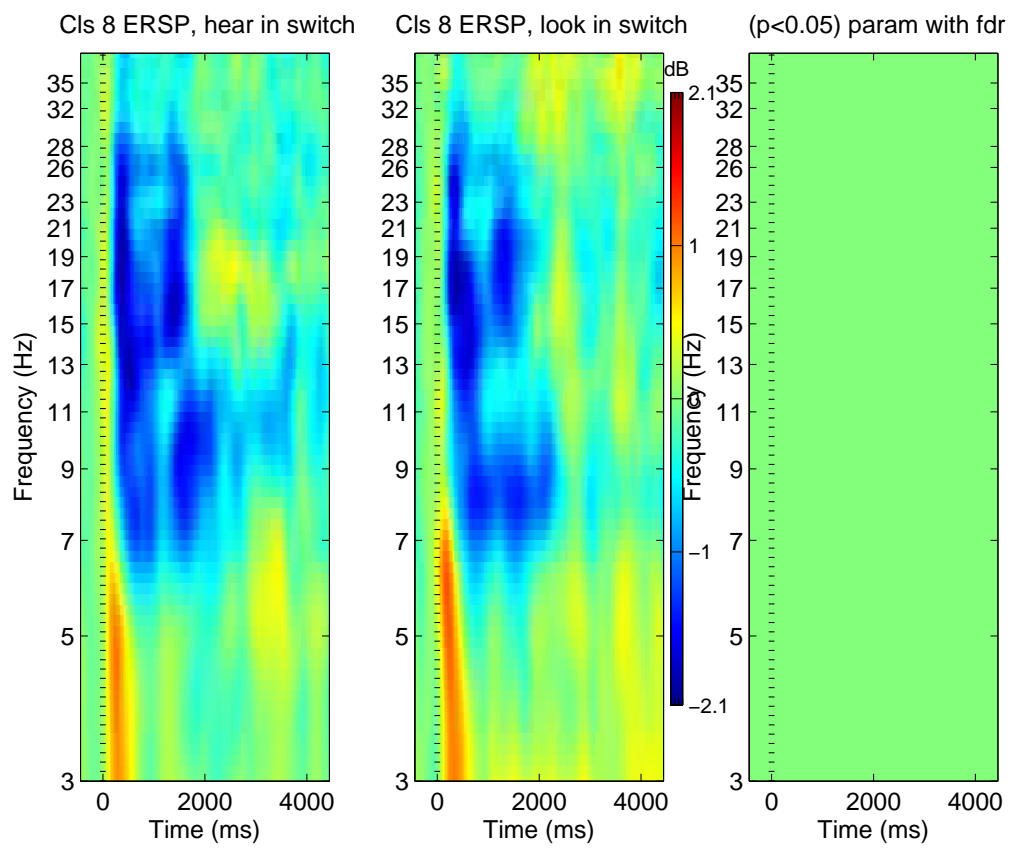


Figure 36: Cluster 08: ERSP

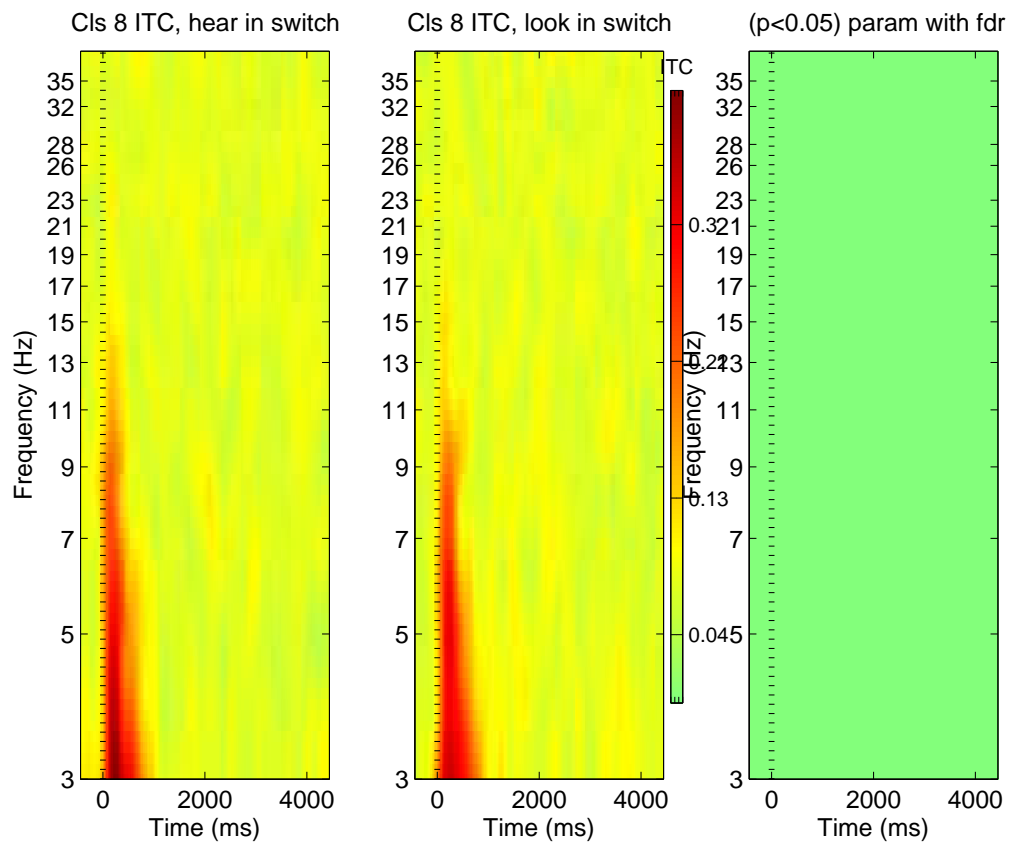


Figure 37: Cluster 08: ITC

10 dipoles:

Plot one

Keep|Next

Next

Prev

Keep|Prev

1

av105a, IC4

RV: 1.61%

X tal: 1

Y tal: 41

Z tal: -25

Display:

Mesh on

Tight view

Sagittal vi...

Coronal v...

Top view

No contro...

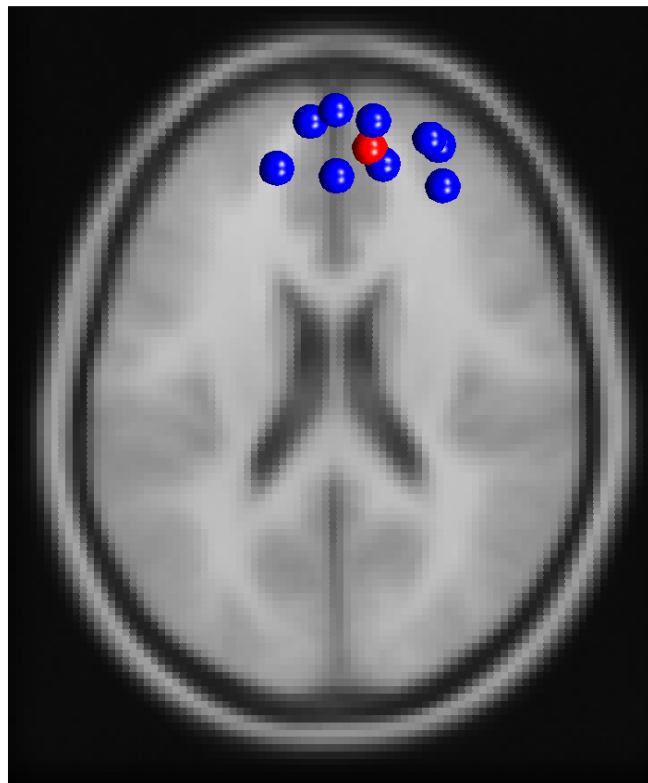


Figure 38: Cluster 09: dipoles

8 Cluster 9

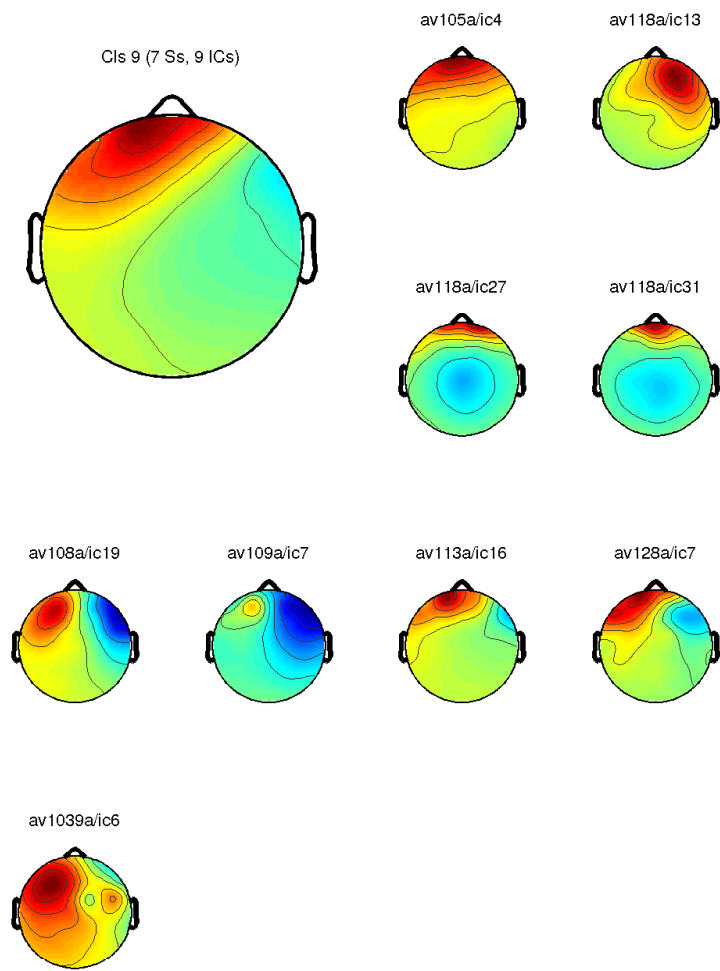


Figure 39: Cluster 09: scalp maps

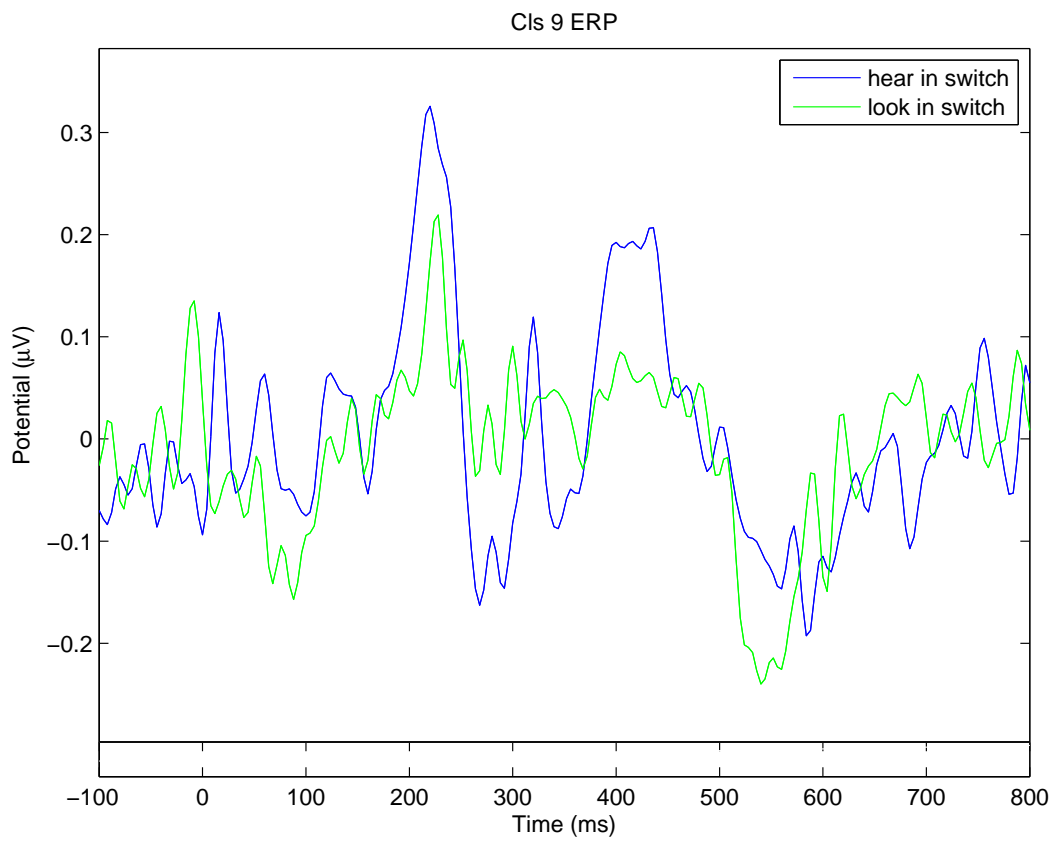


Figure 40: Cluster 09: ERP

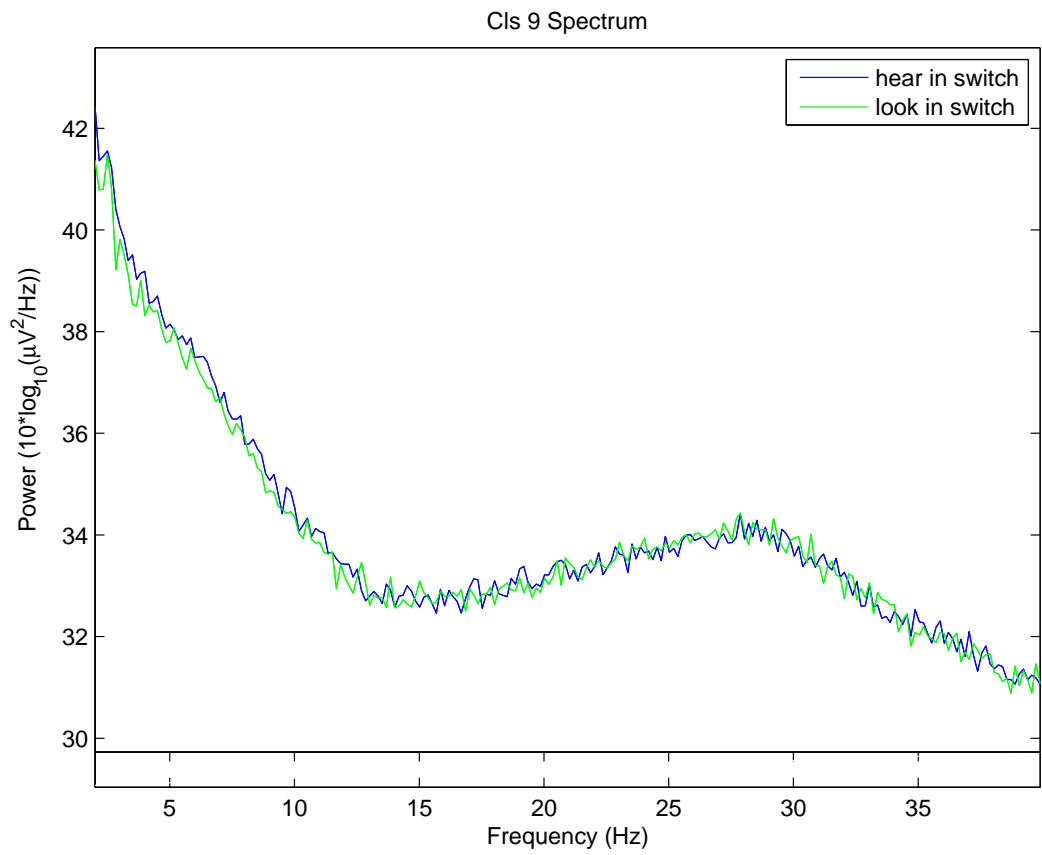


Figure 41: Cluster 09: Spectra

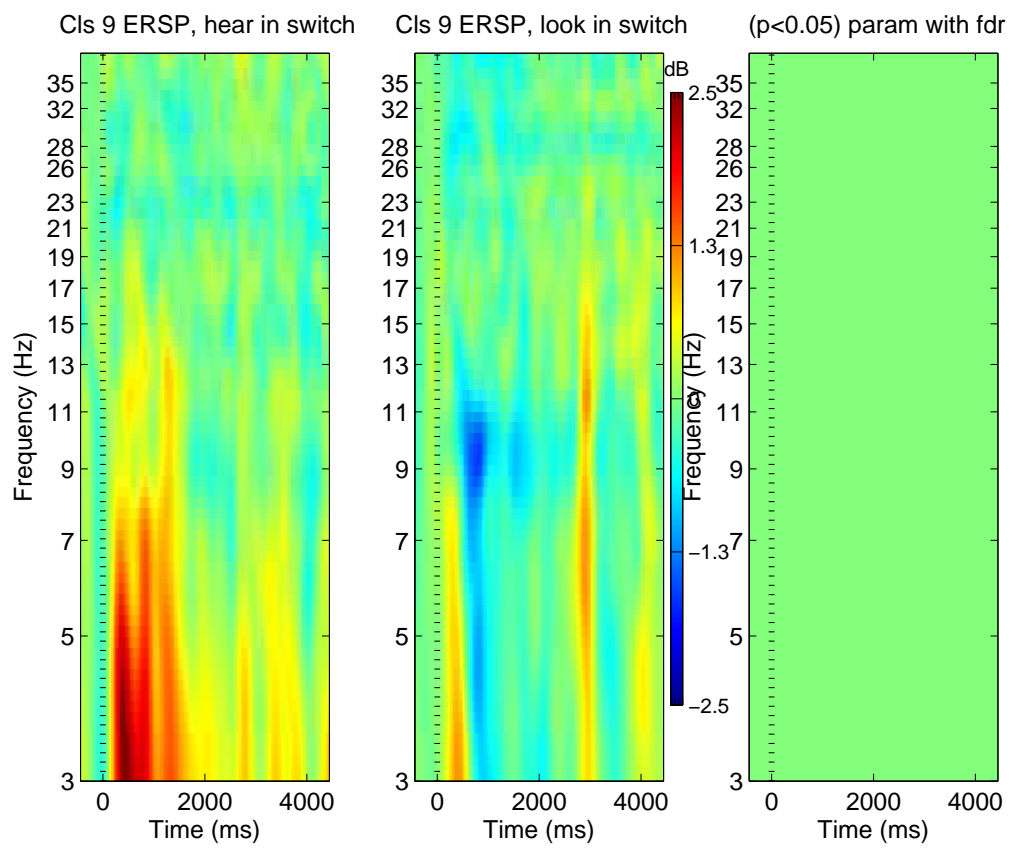


Figure 42: Cluster 09: ERSP

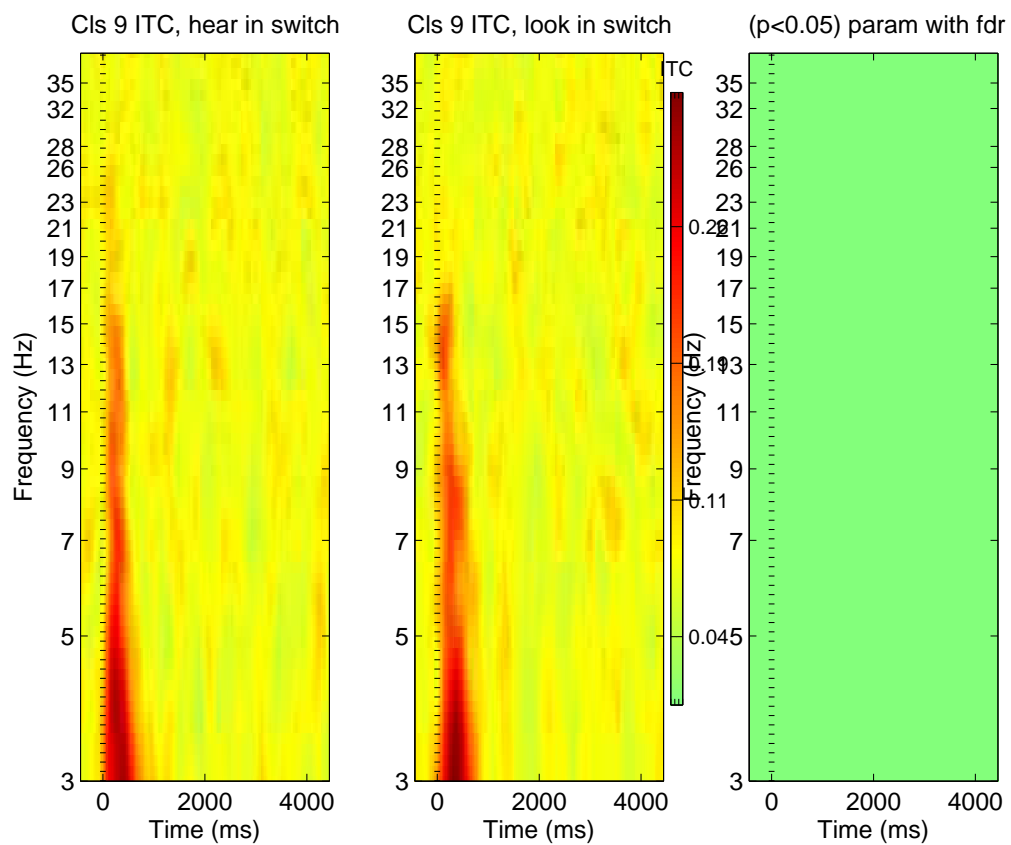


Figure 43: Cluster 09: ITC

14 dipoles:
Plot one
Keep|Next
Next
Prev
Keep|Prev
1
av101a, IC3
RV: 1.40%
X tal: -6
Y tal: 21
Z tal: 31
Display:
Mesh on
Tight view
Sagittal vi...
Coronal v...
Top view
No contro...

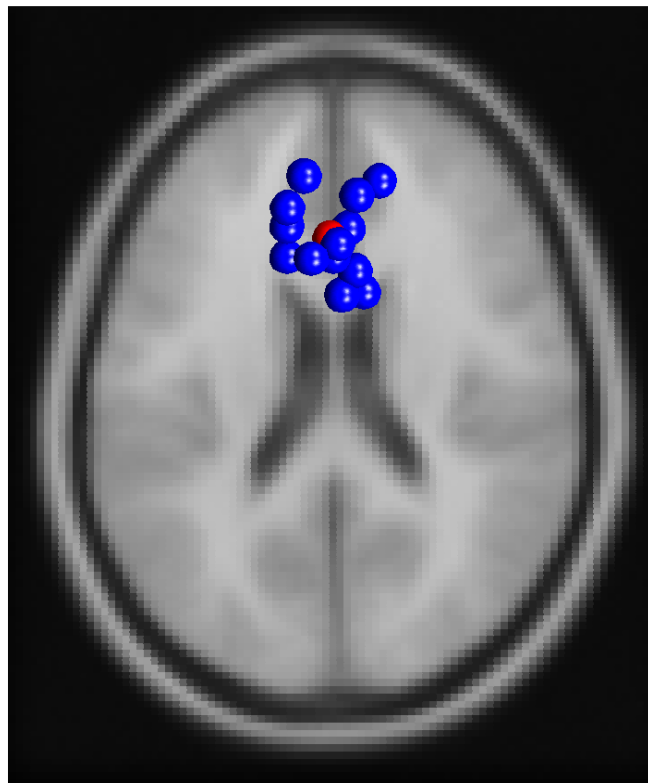


Figure 44: Cluster 10: dipoles

9 Cluster 10

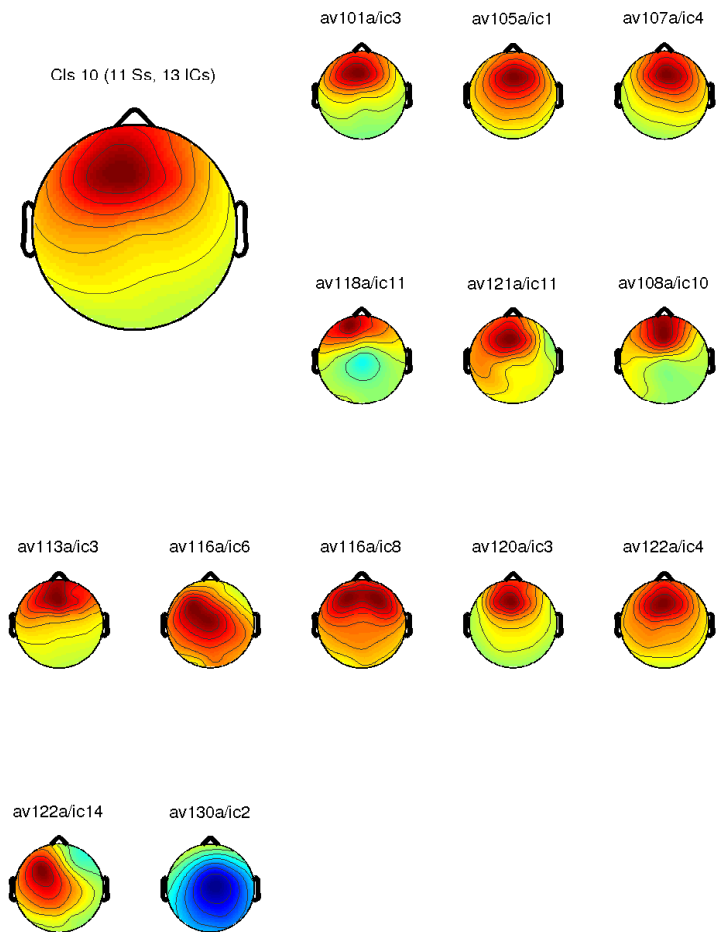


Figure 45: Cluster 10: scalp maps

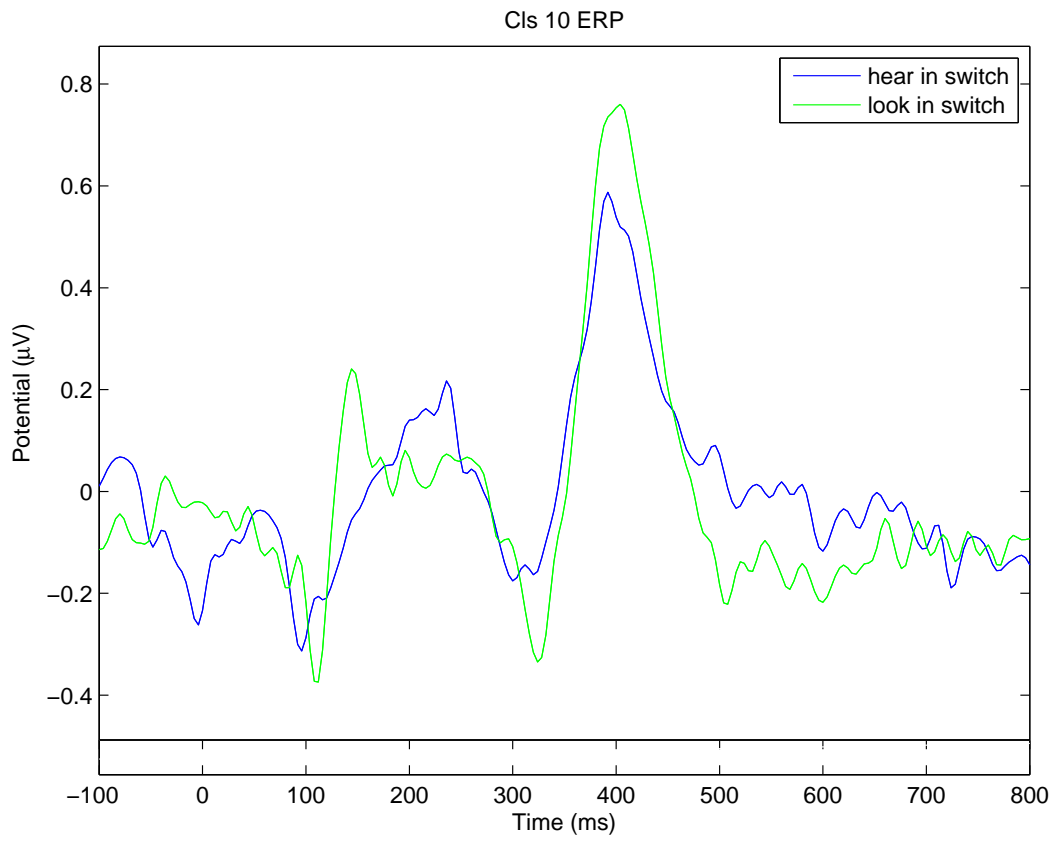


Figure 46: Cluster 10: ERP

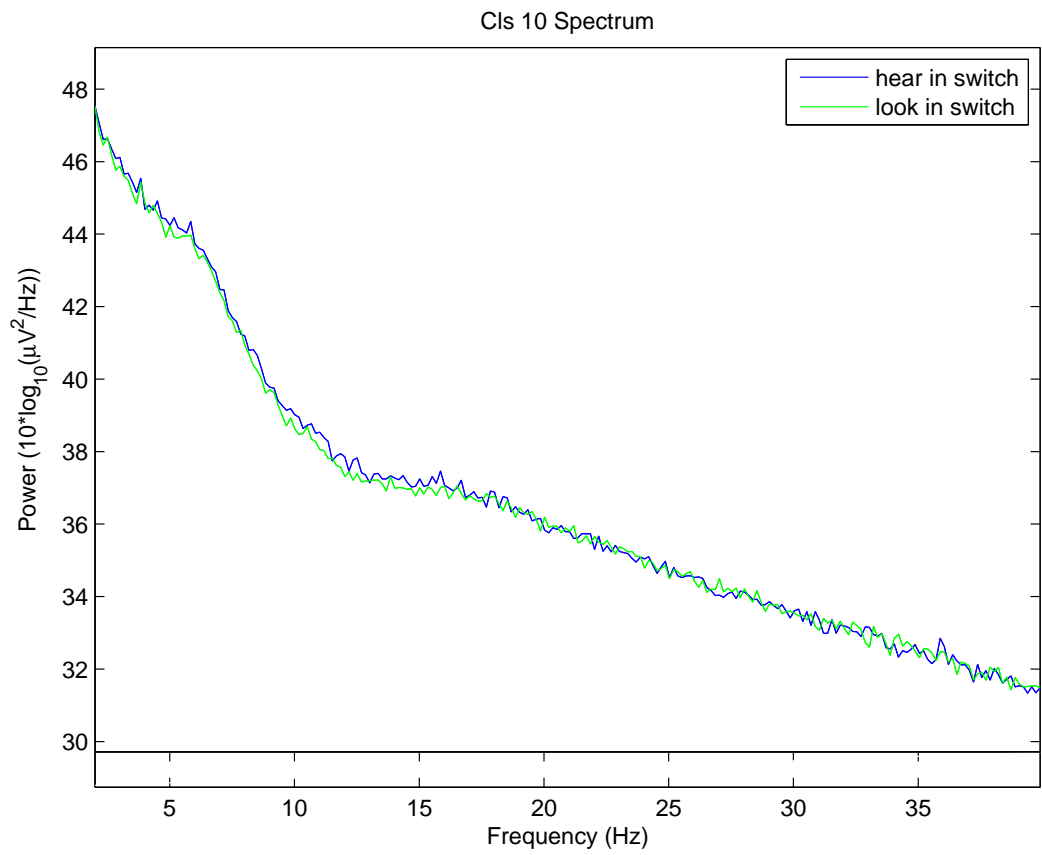


Figure 47: Cluster 10: Spectra

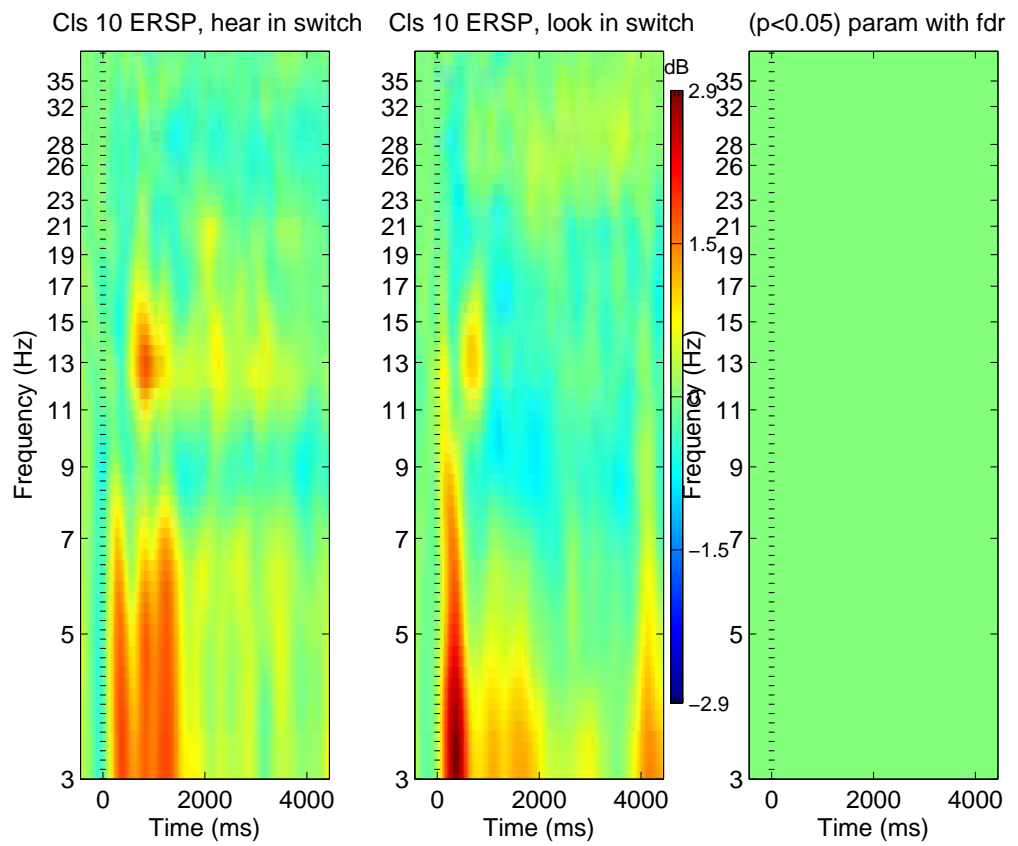


Figure 48: Cluster 10: ERSP

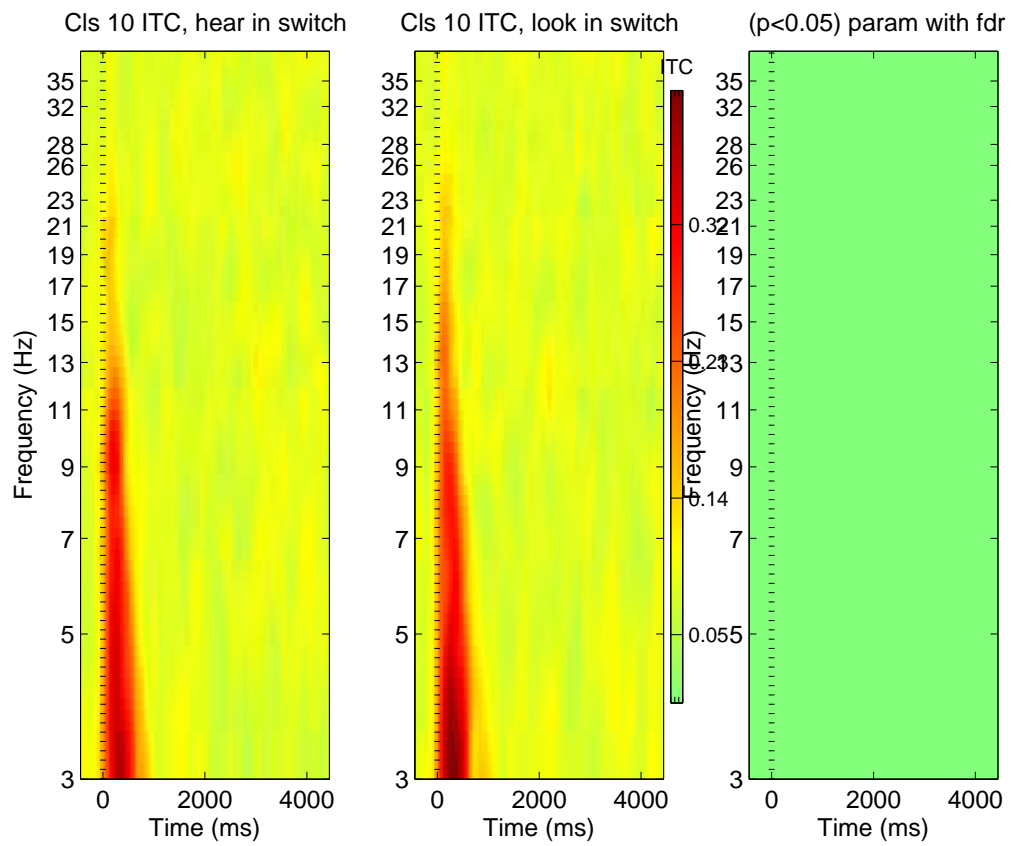


Figure 49: Cluster 10: ITC

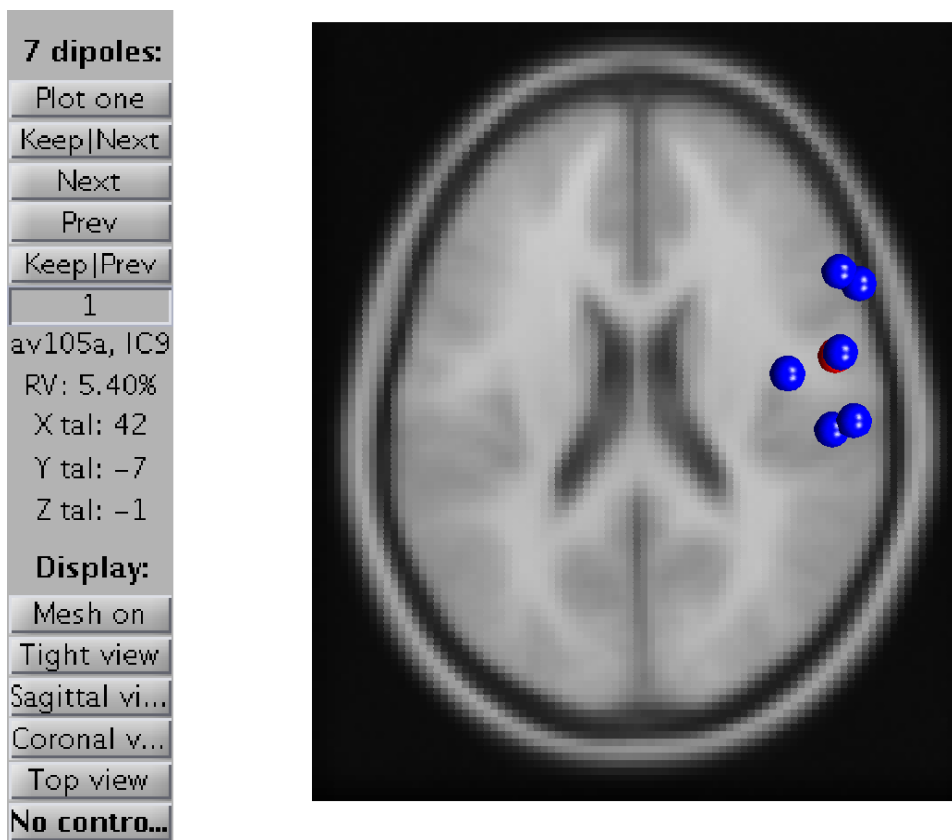


Figure 50: Cluster 11: dipoles

10 Cluster 11

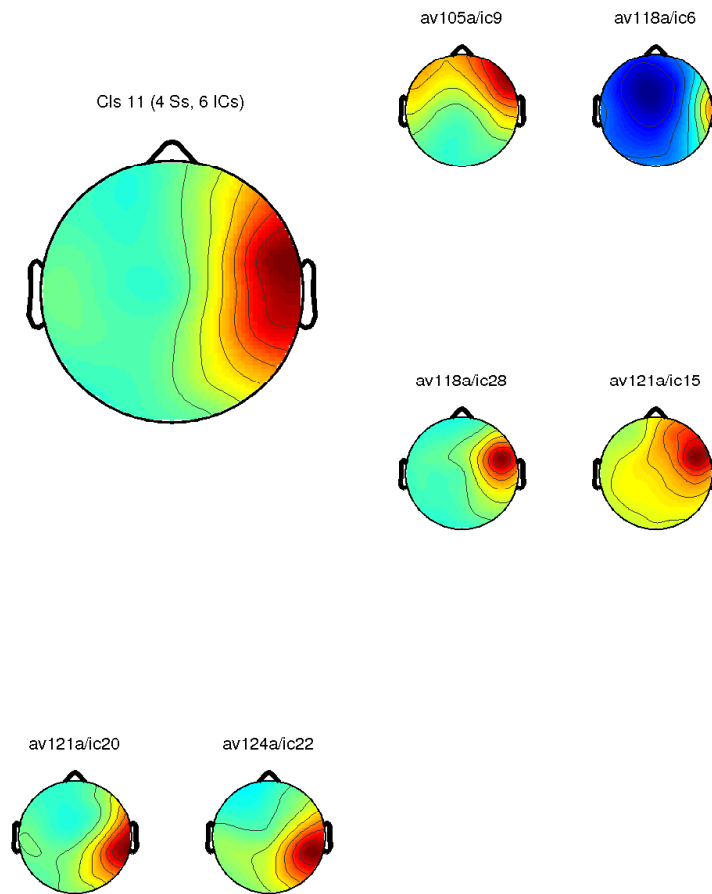


Figure 51: Cluster 11: scalp maps

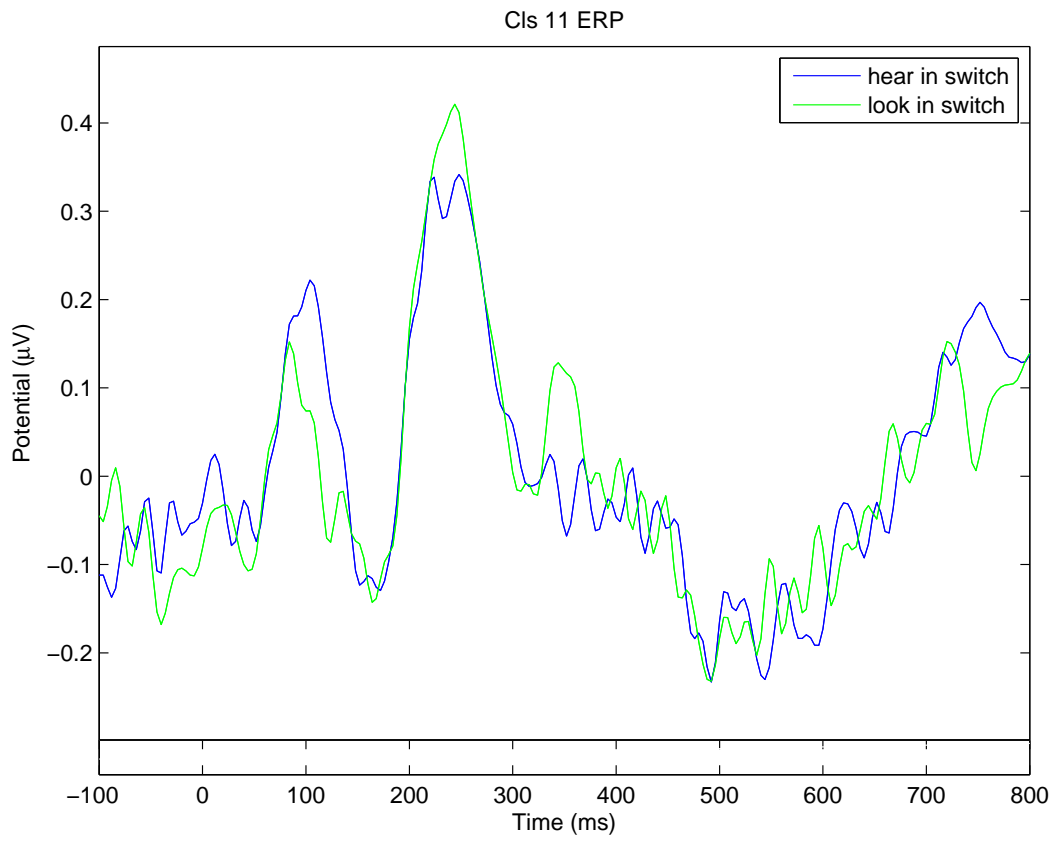


Figure 52: Cluster 11: ERP

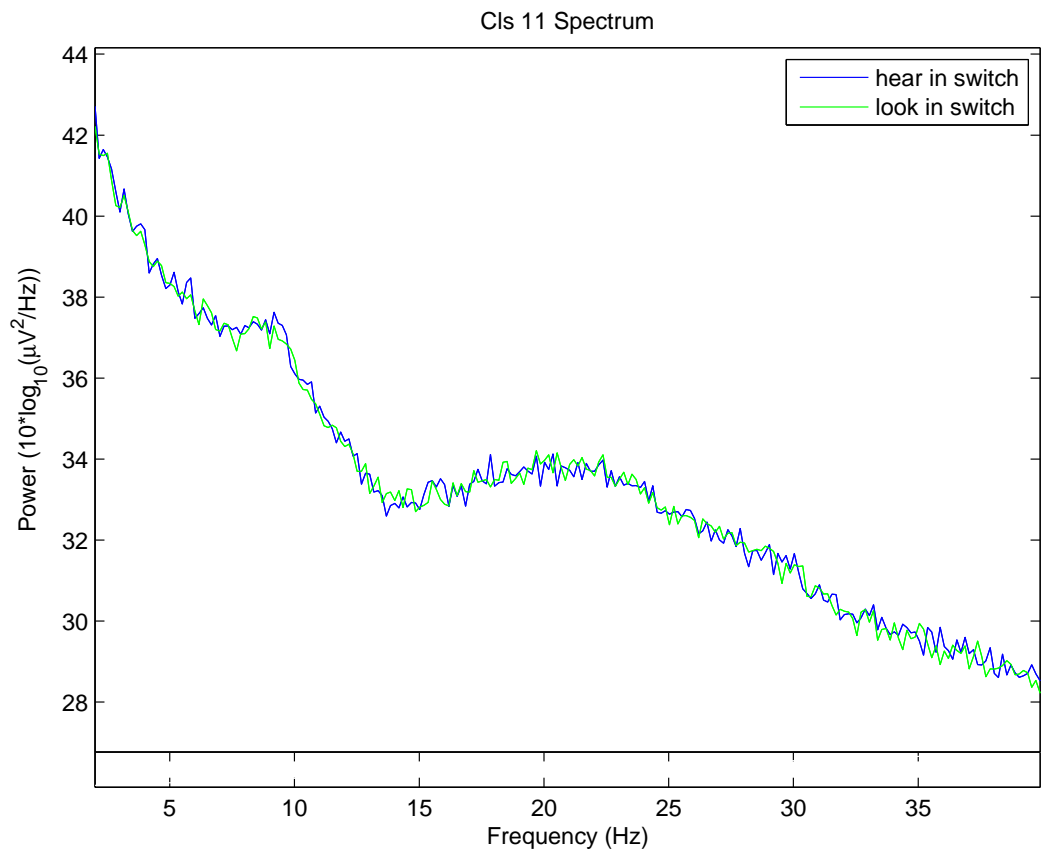


Figure 53: Cluster 11: Spectra

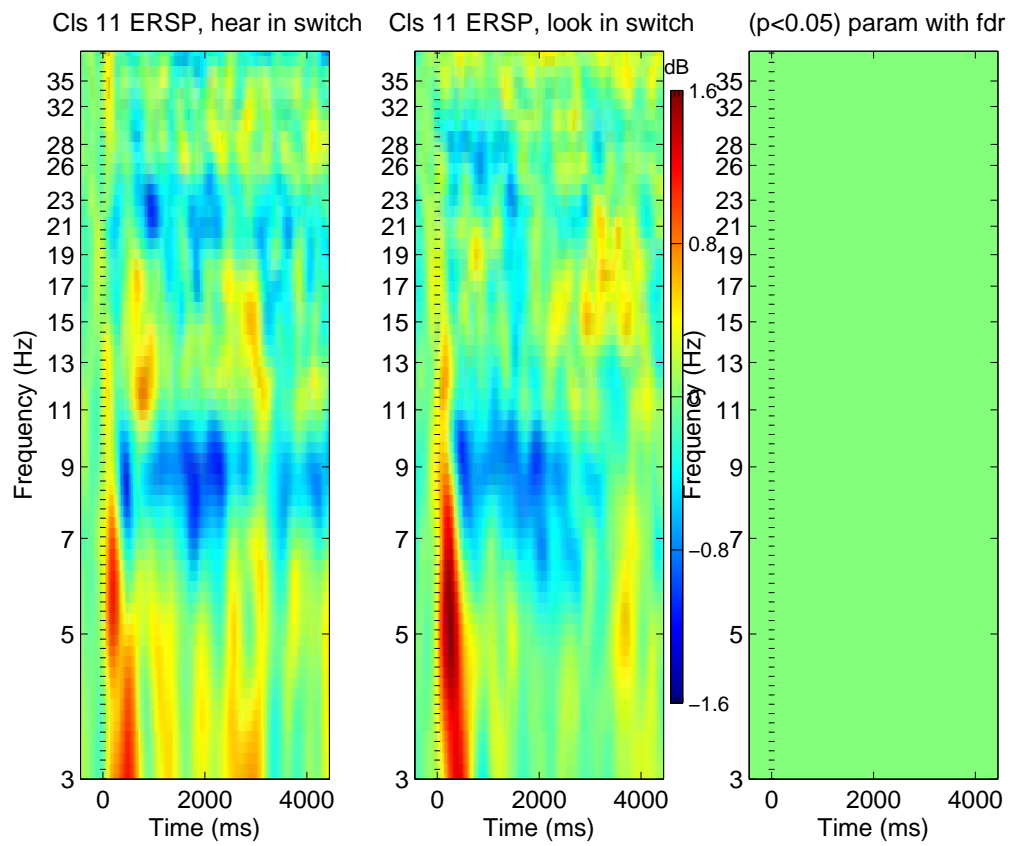


Figure 54: Cluster 11: ERSP

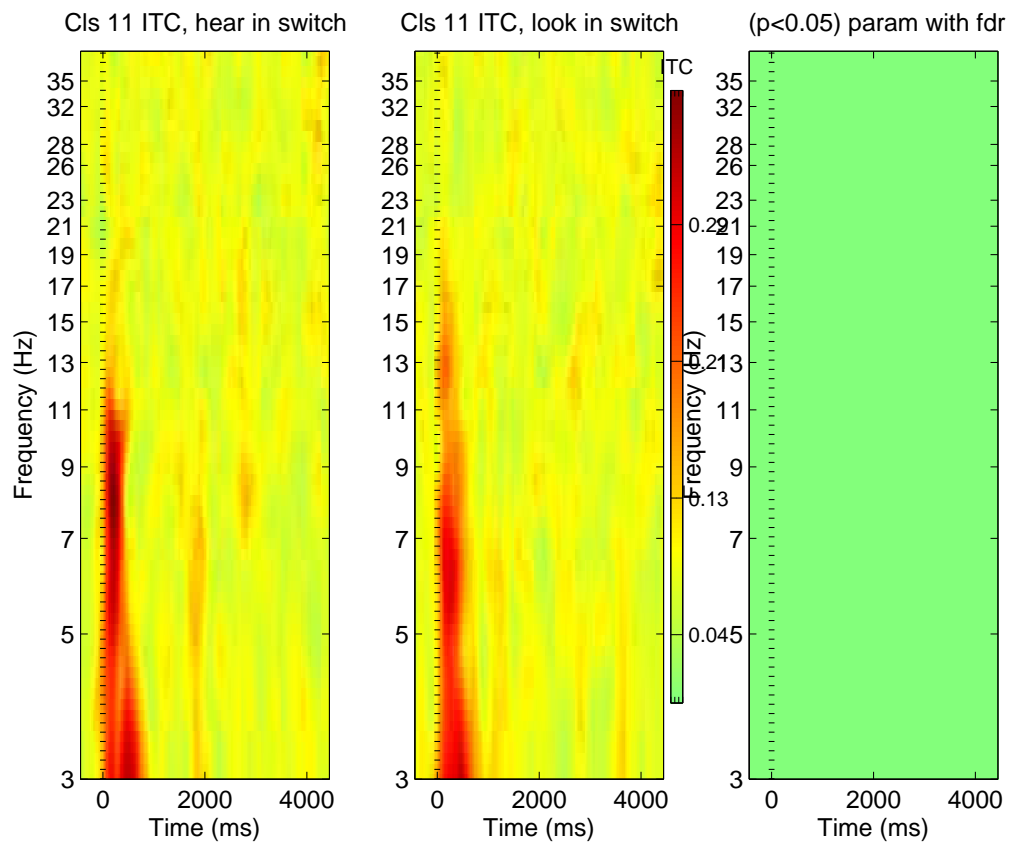


Figure 55: Cluster 11: ITC

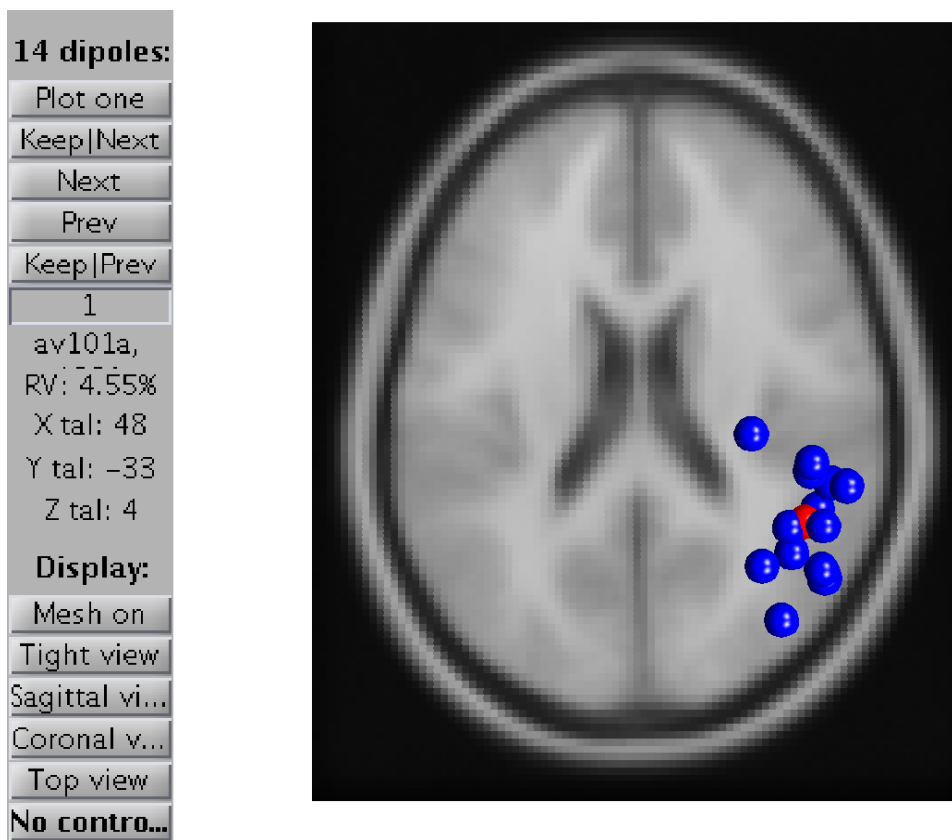


Figure 56: Cluster 12: dipoles

11 Cluster 12

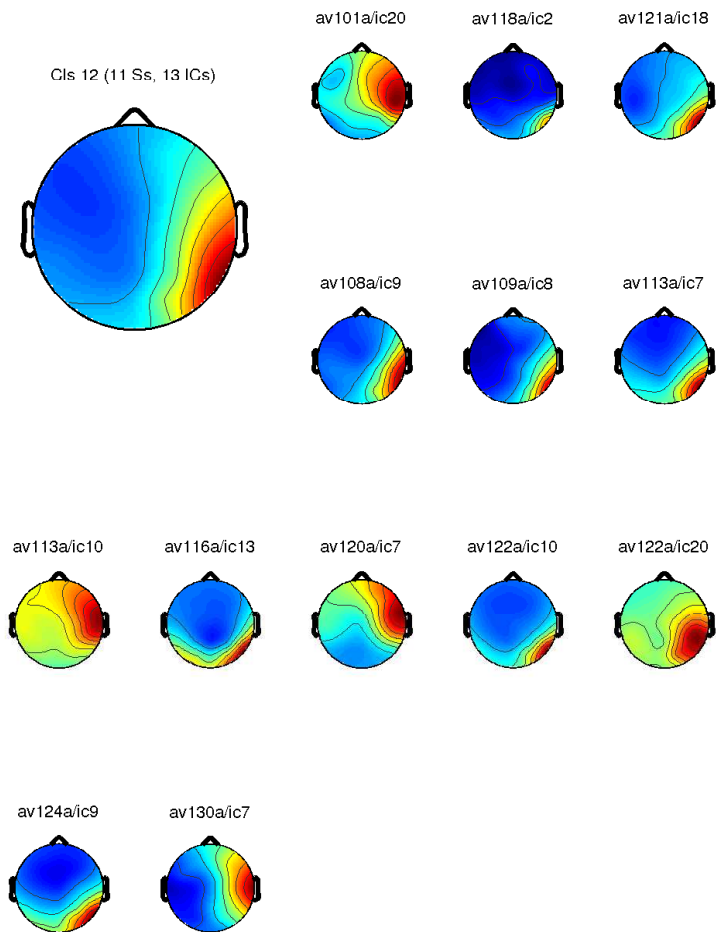


Figure 57: Cluster 12: scalp maps

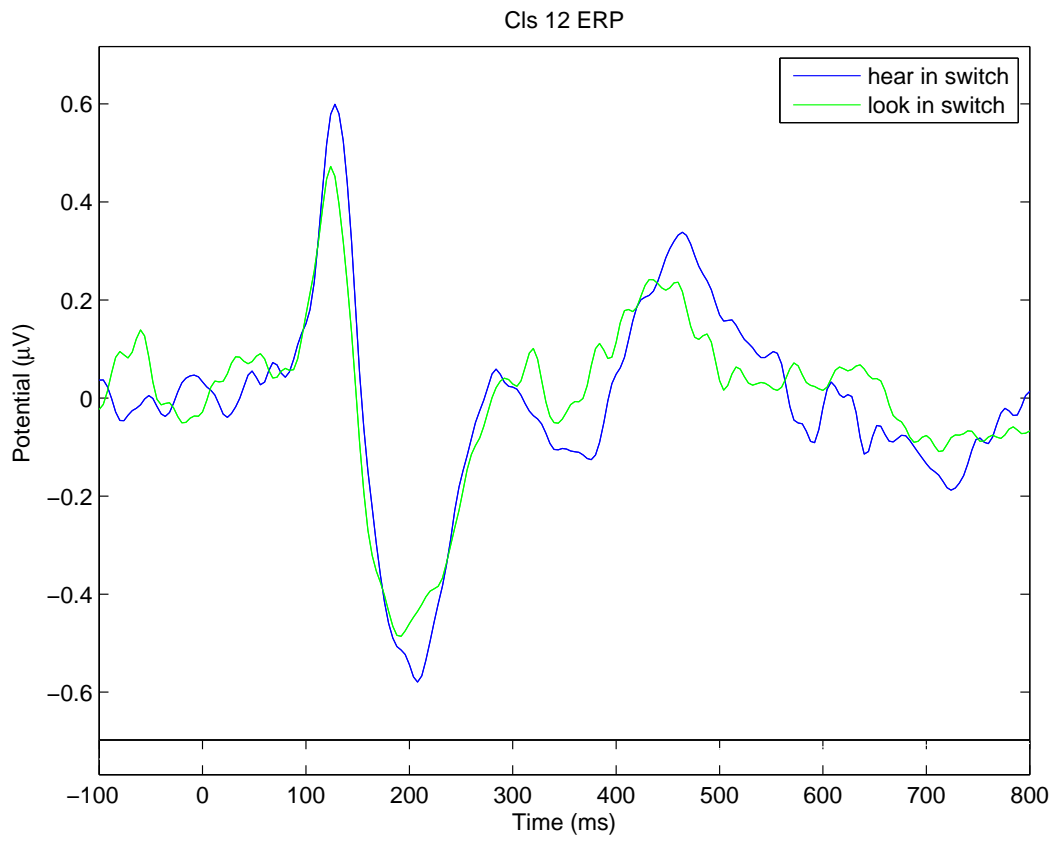


Figure 58: Cluster 12: ERP

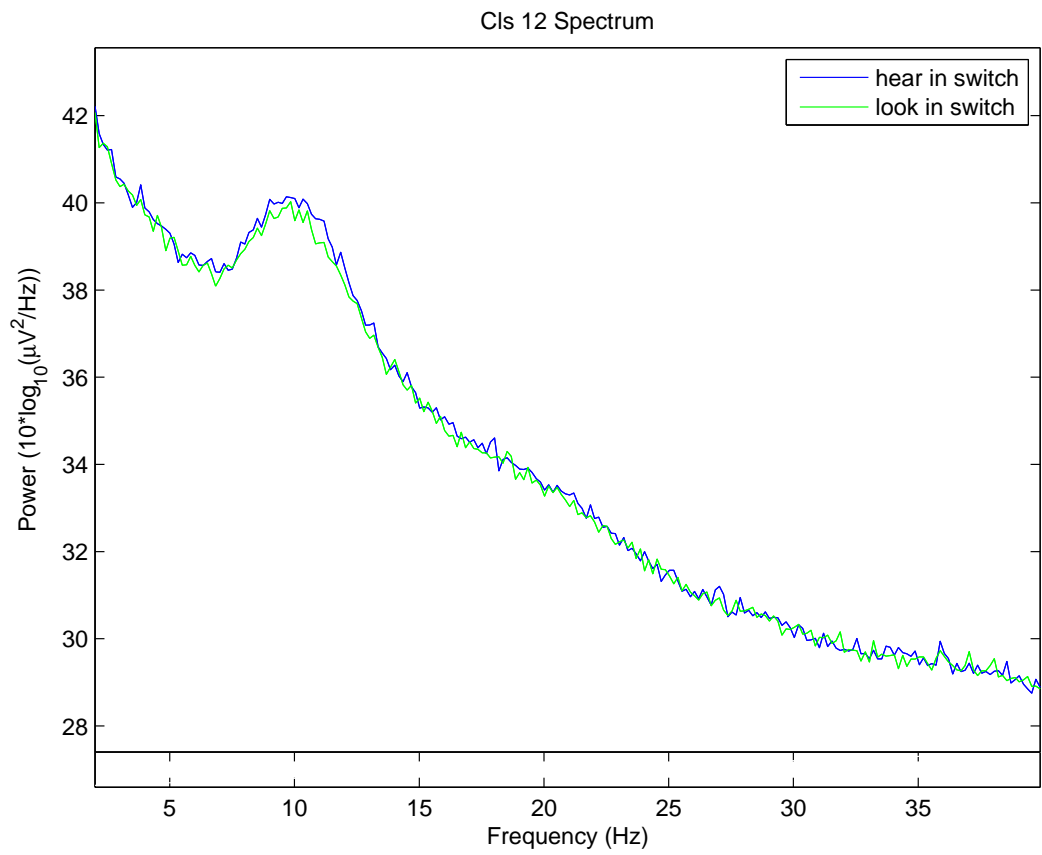


Figure 59: Cluster 12: Spectra

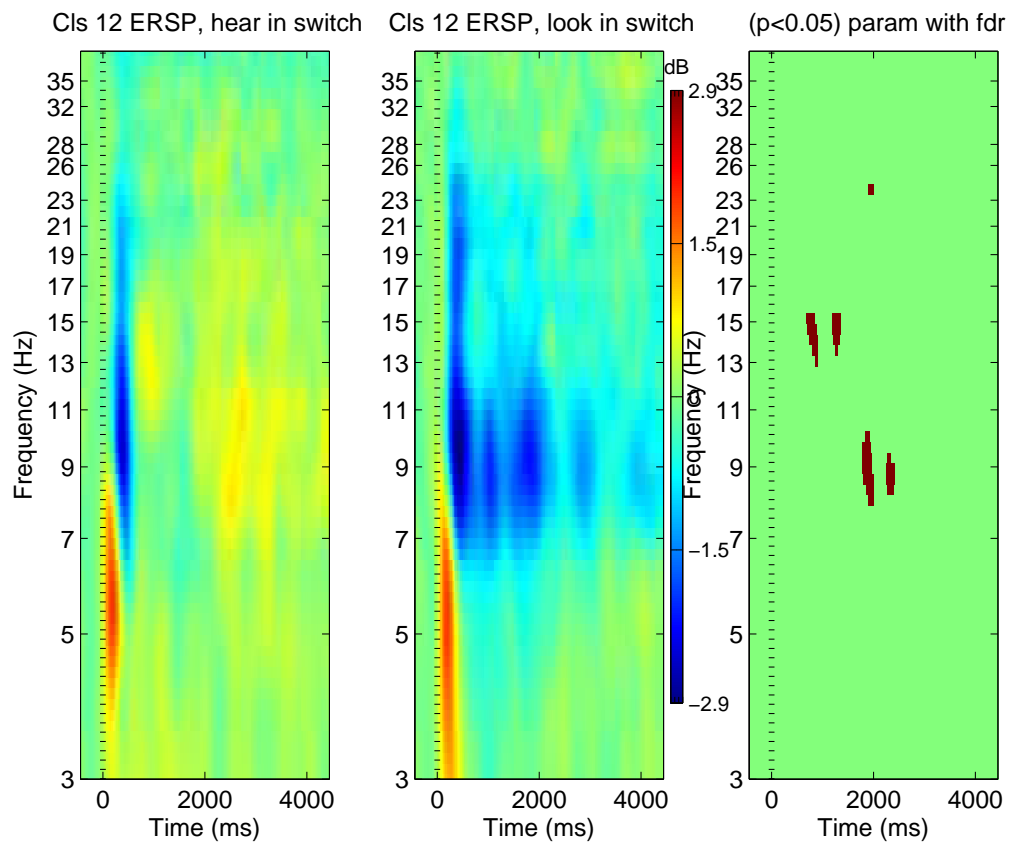


Figure 60: Cluster 12: ERSP

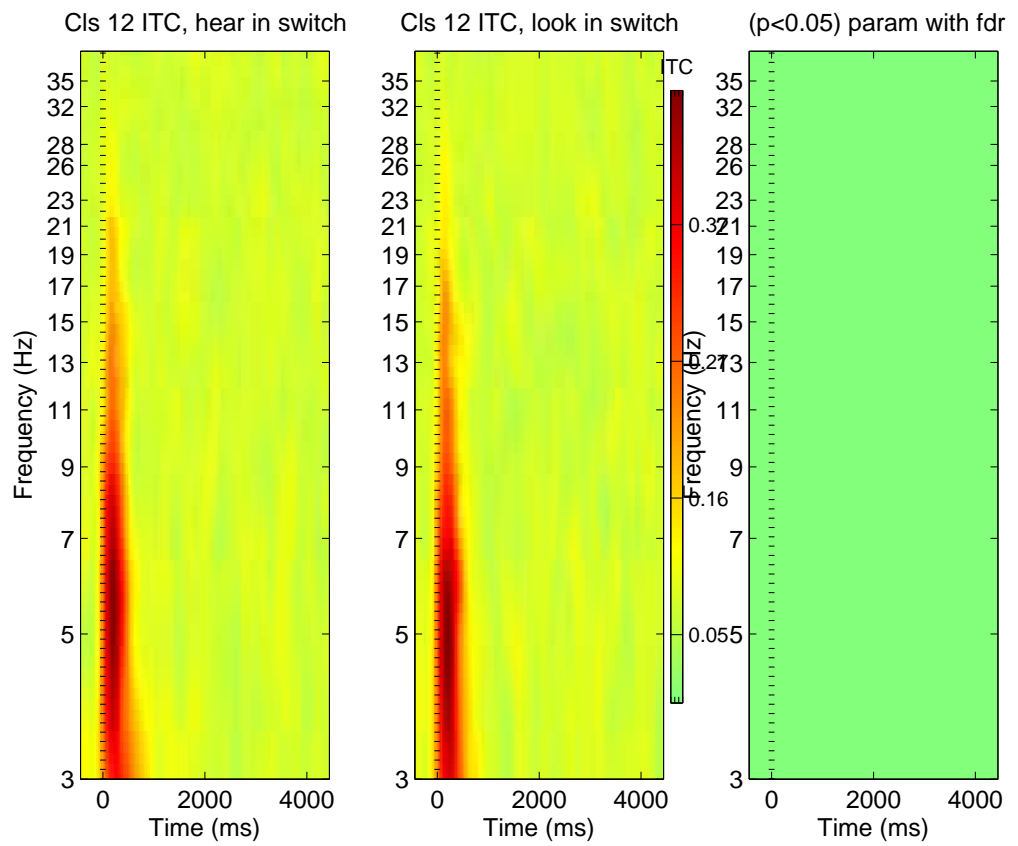


Figure 61: Cluster 12: ITC

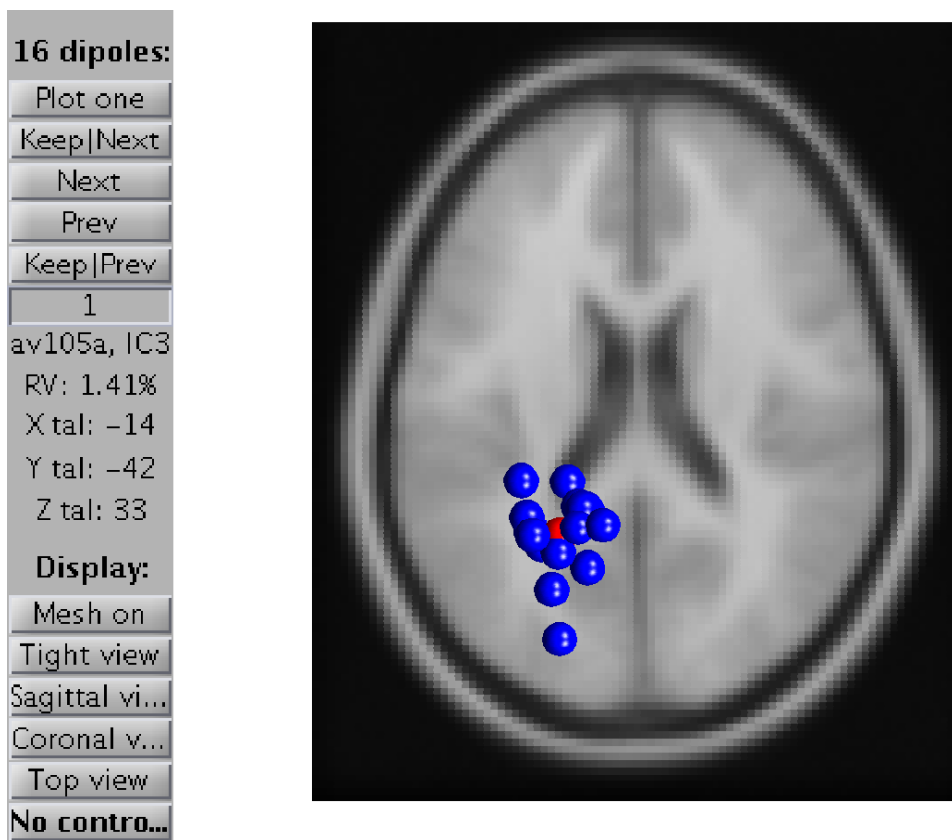


Figure 62: Cluster 13: dipoles

12 Cluster 13

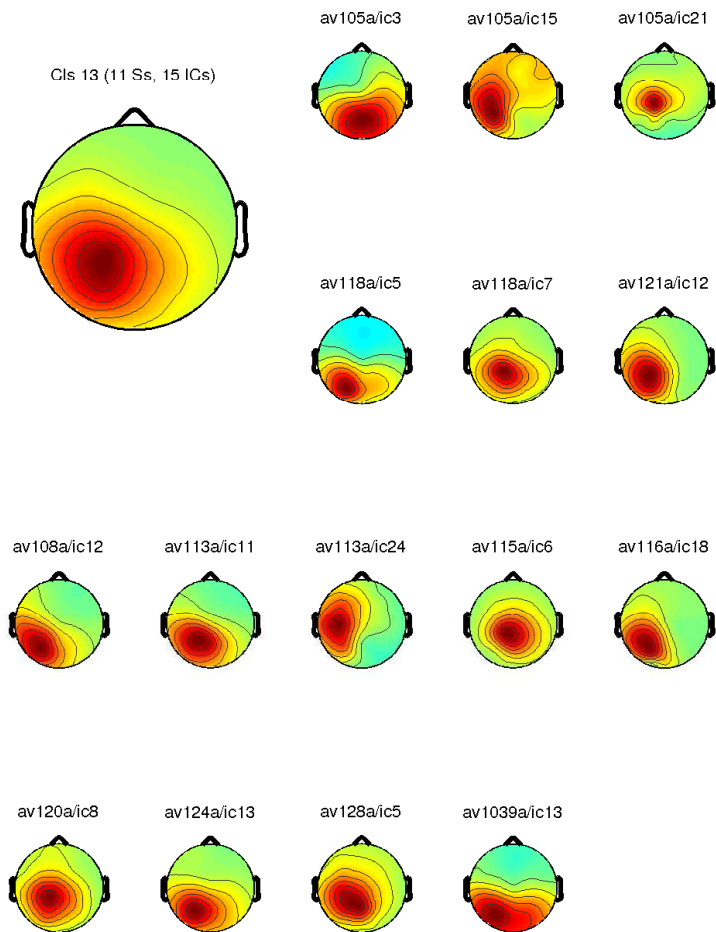


Figure 63: Cluster 13: scalp maps

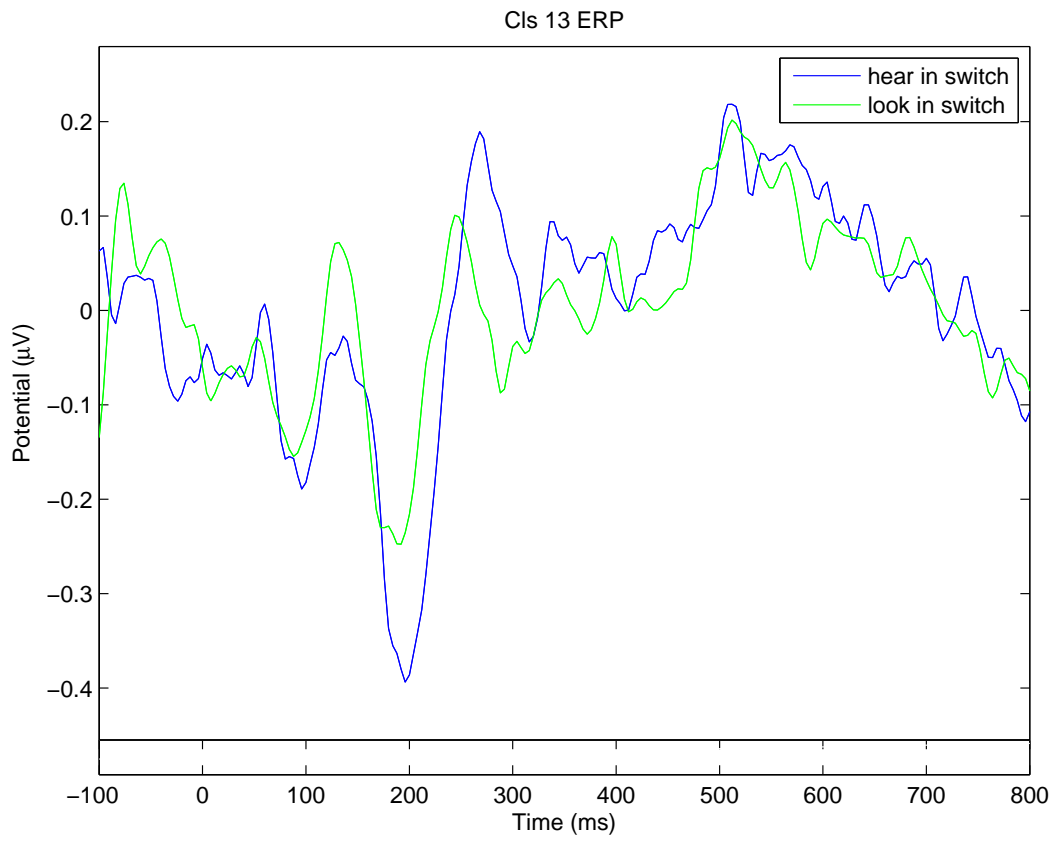


Figure 64: Cluster 13: ERP

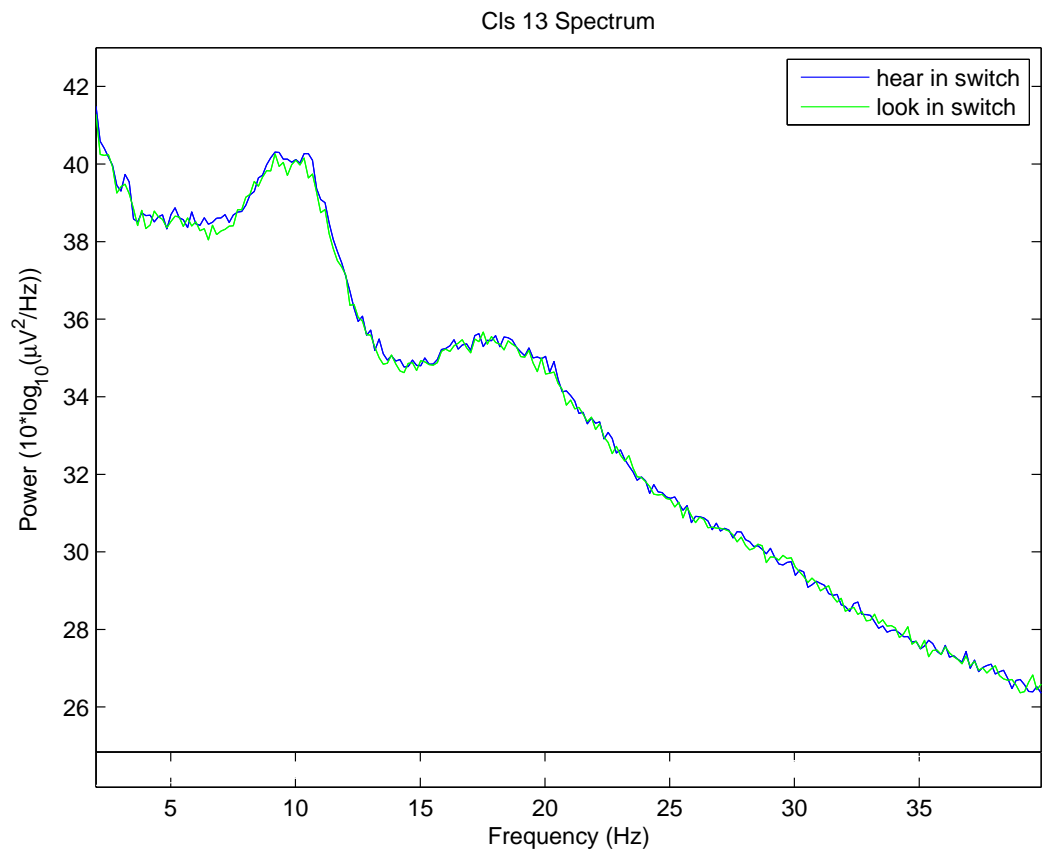


Figure 65: Cluster 13: Spectra

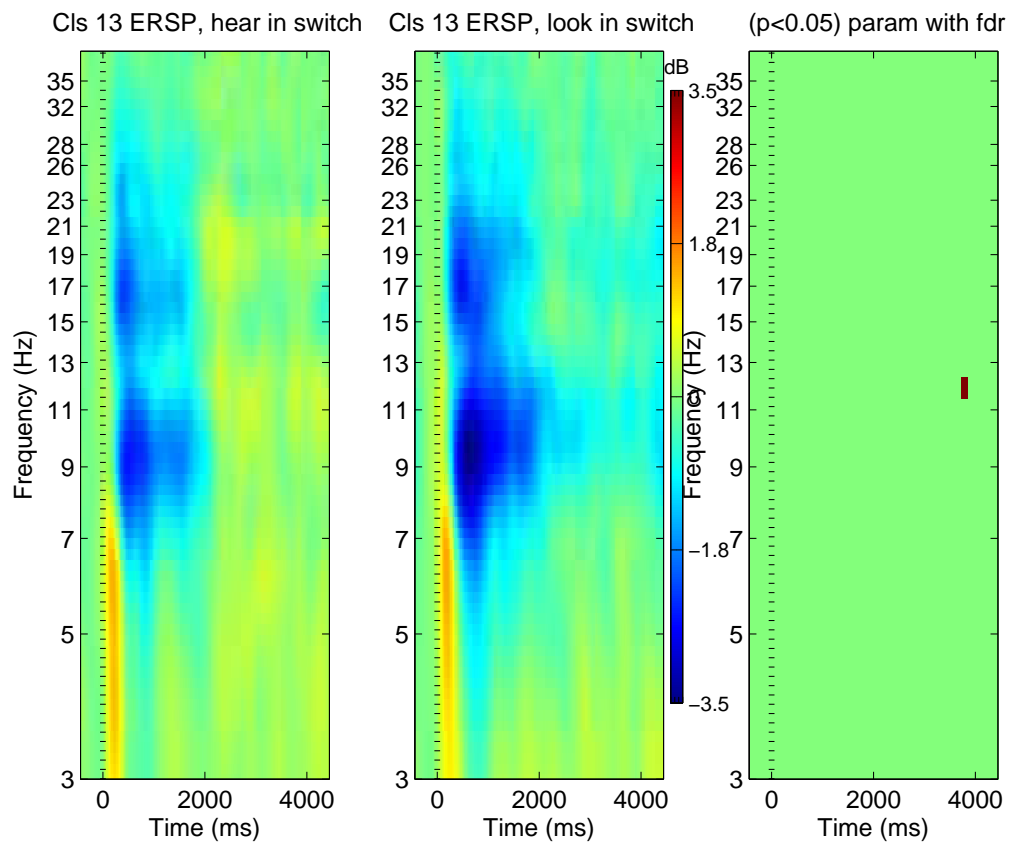


Figure 66: Cluster 13: ERSP

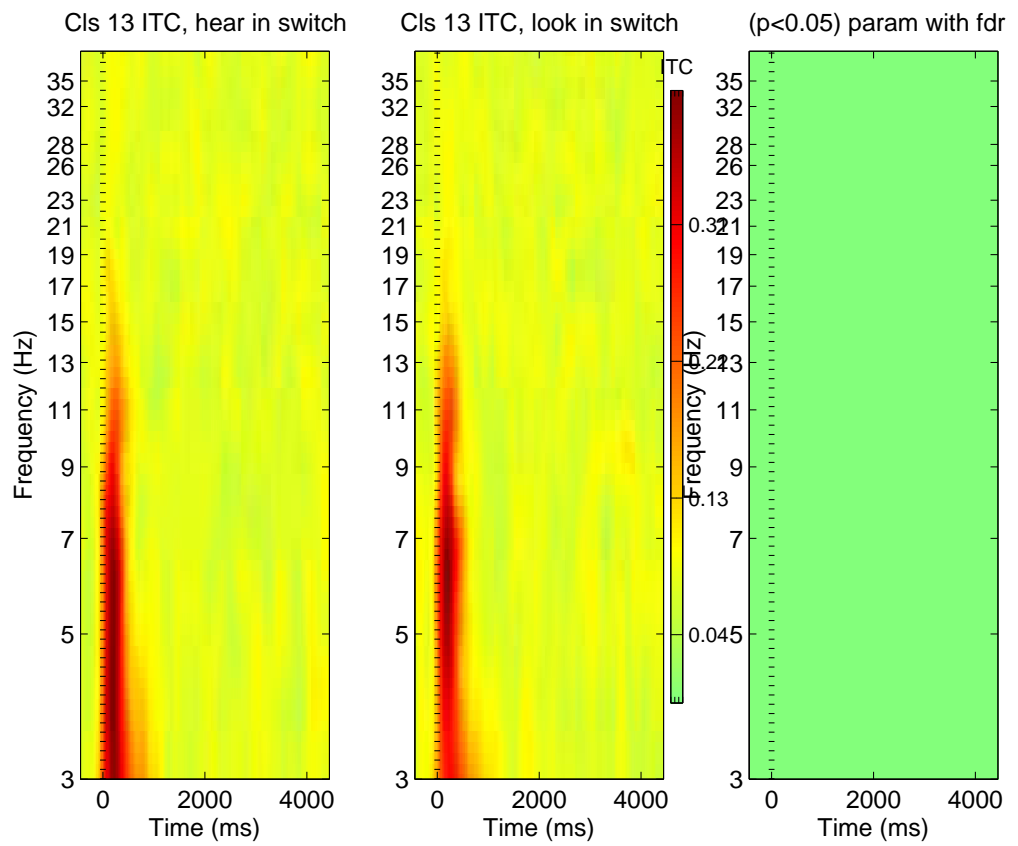


Figure 67: Cluster 13: ITC

24 dipoles:
 Plot one
 Keep|Next
 Next
 Prev
 Keep|Prev
 1
 av101a, IC1
 RV: 1.25%
 X tal: 2
 Y tal: -7
 Z tal: 42
Display:
 Mesh on
 Tight view
 Sagittal vi...
 Coronal v...
 Top view
No contro...

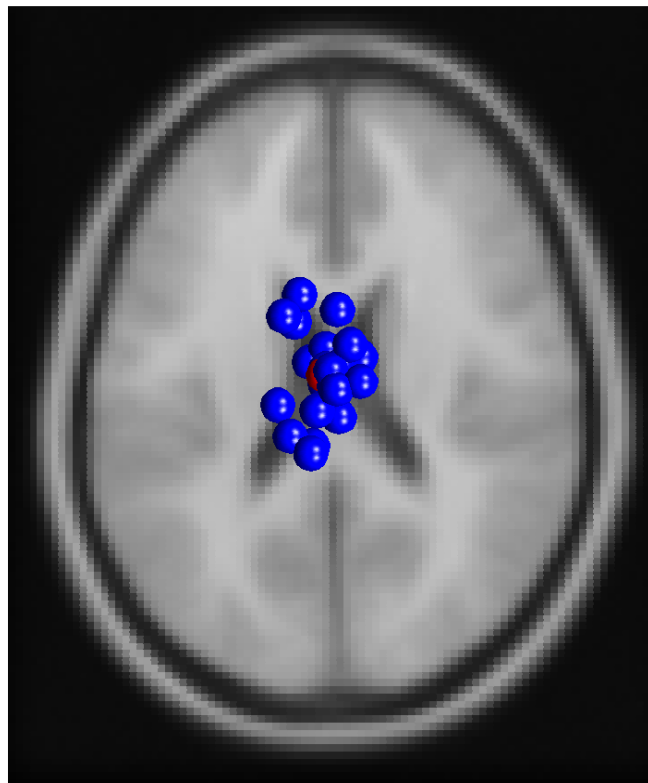


Figure 68: Cluster 14: dipoles

13 Cluster 14

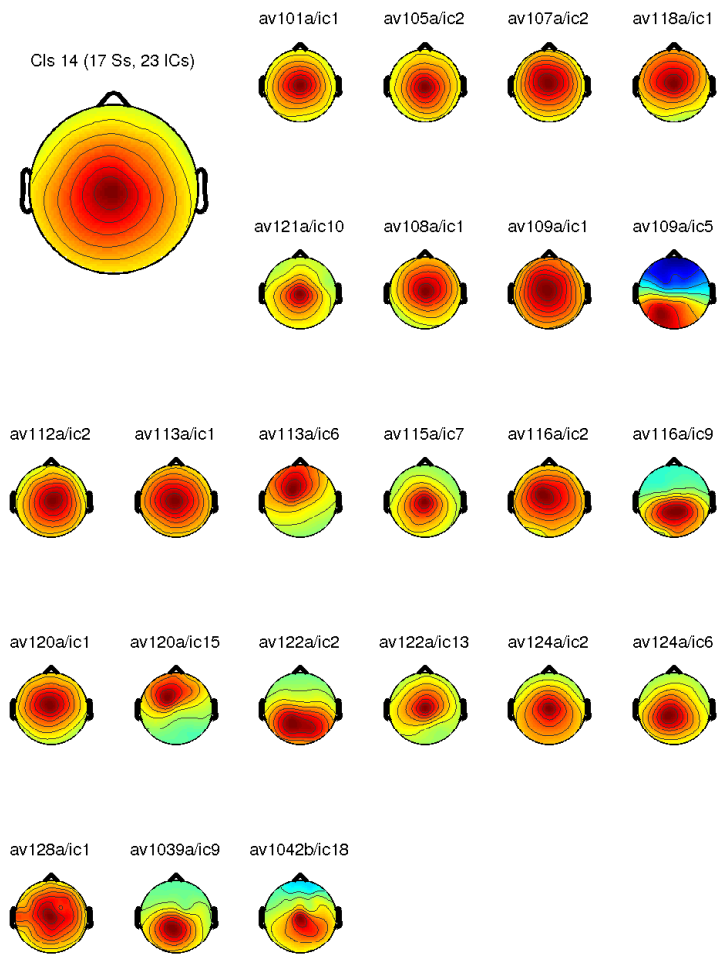


Figure 69: Cluster 14: scalp maps

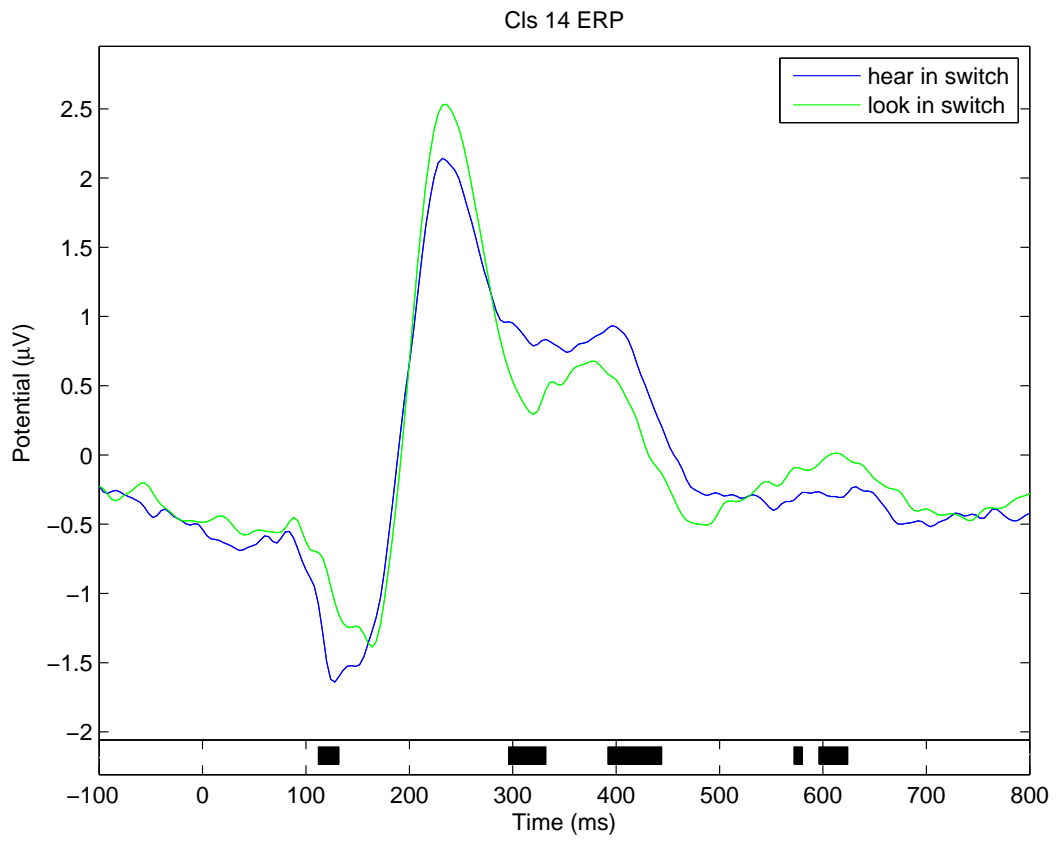


Figure 70: Cluster 14: ERP

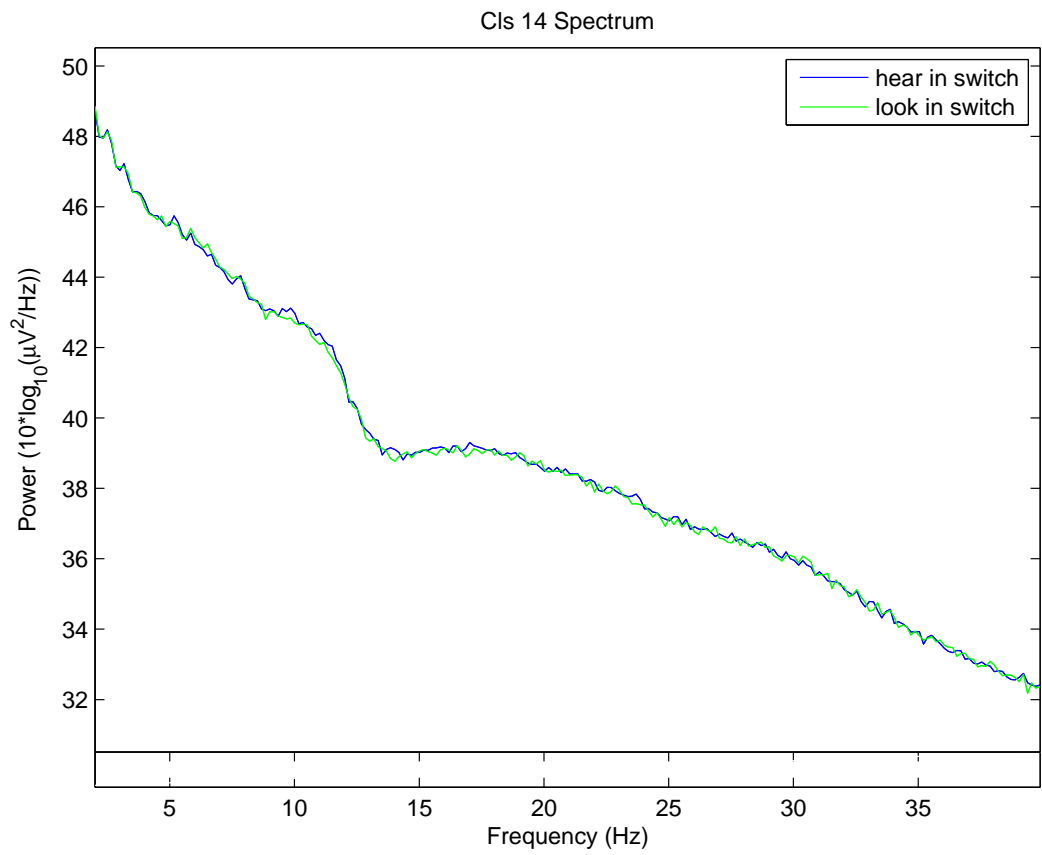


Figure 71: Cluster 14: Spectra

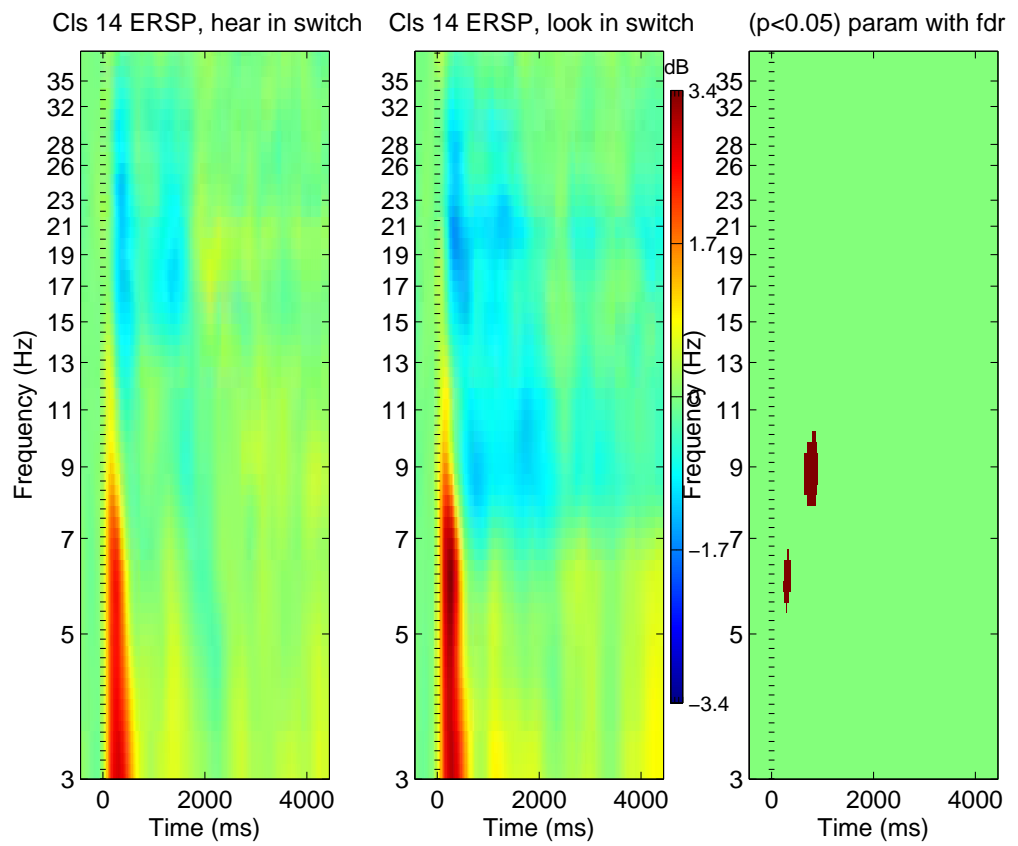


Figure 72: Cluster 14: ERSP

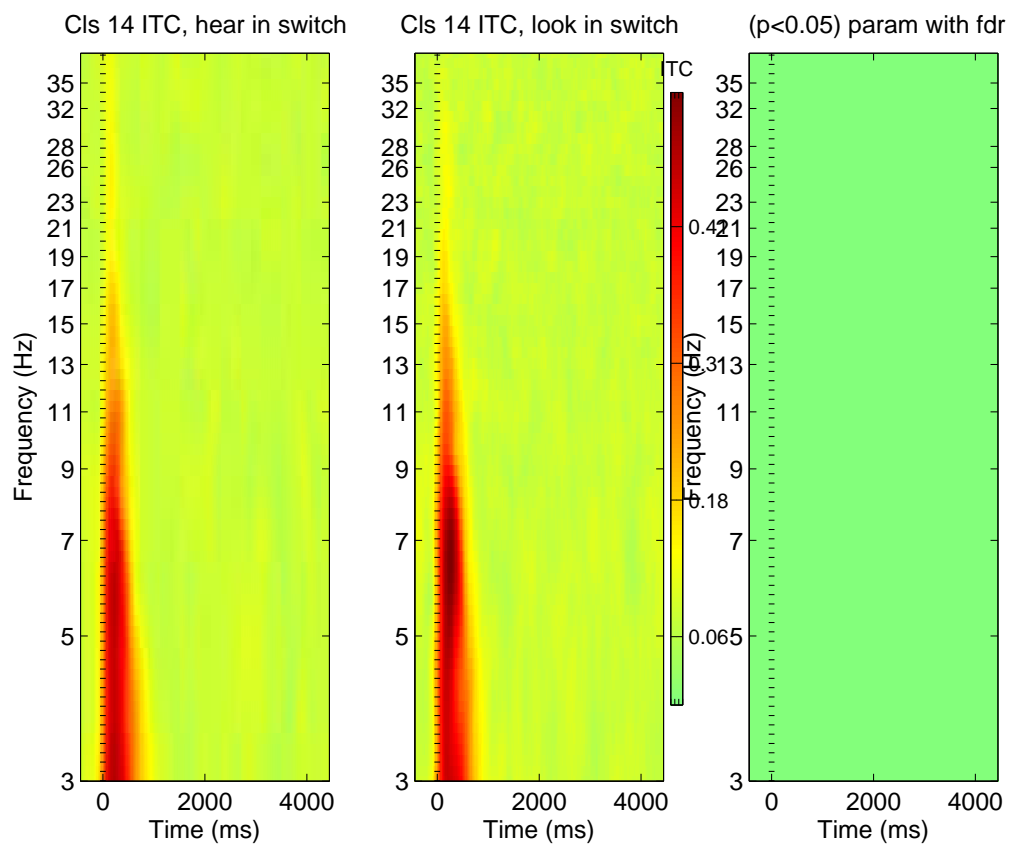


Figure 73: Cluster 14: ITC

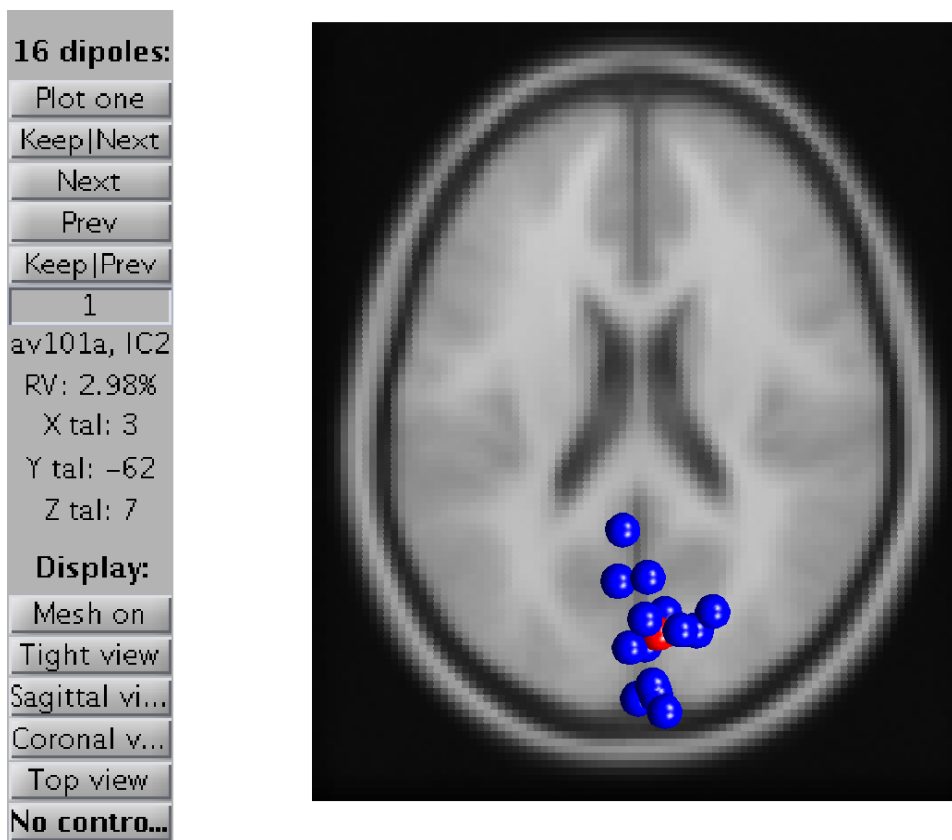


Figure 74: Cluster 15: dipoles

14 Cluster 15

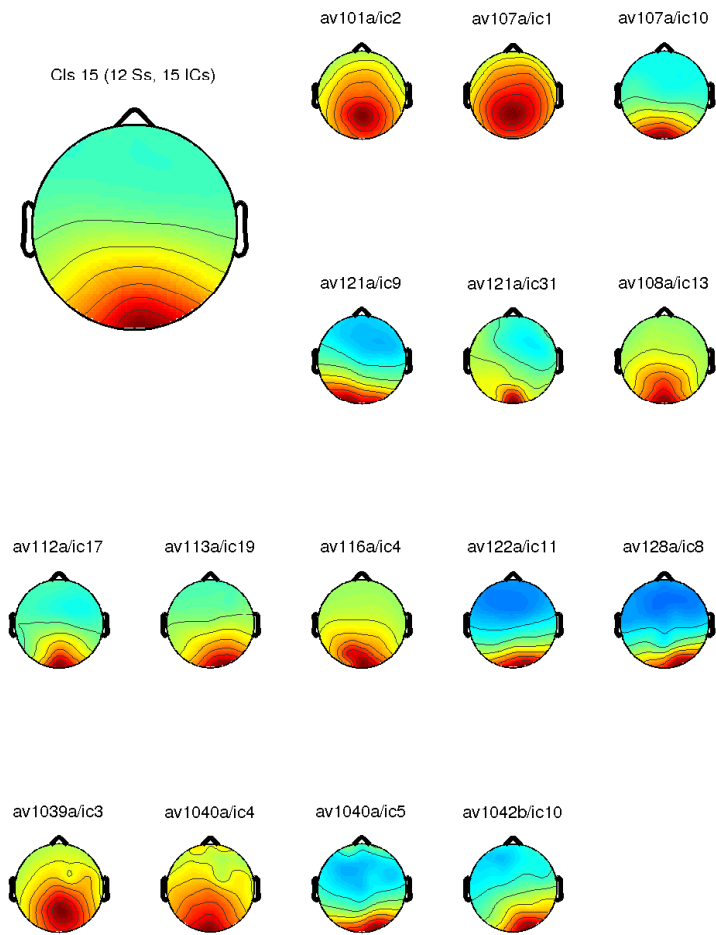


Figure 75: Cluster 15: scalp maps

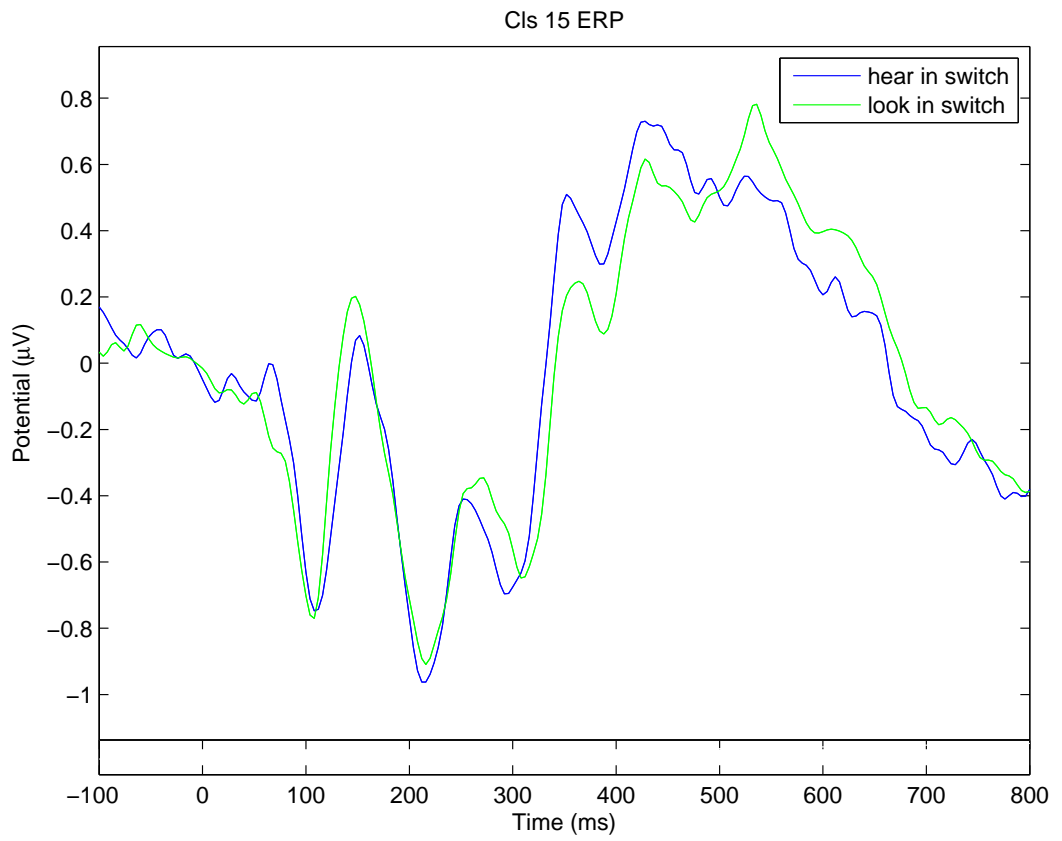


Figure 76: Cluster 15: ERP

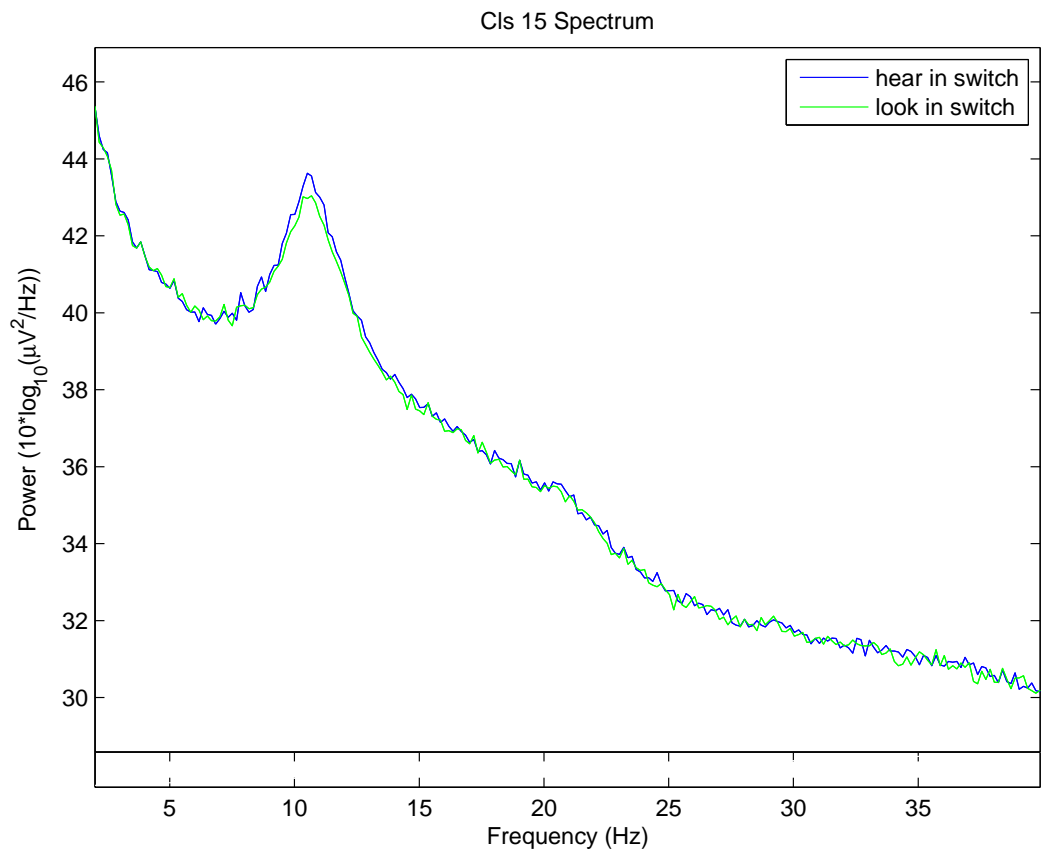


Figure 77: Cluster 15: Spectra

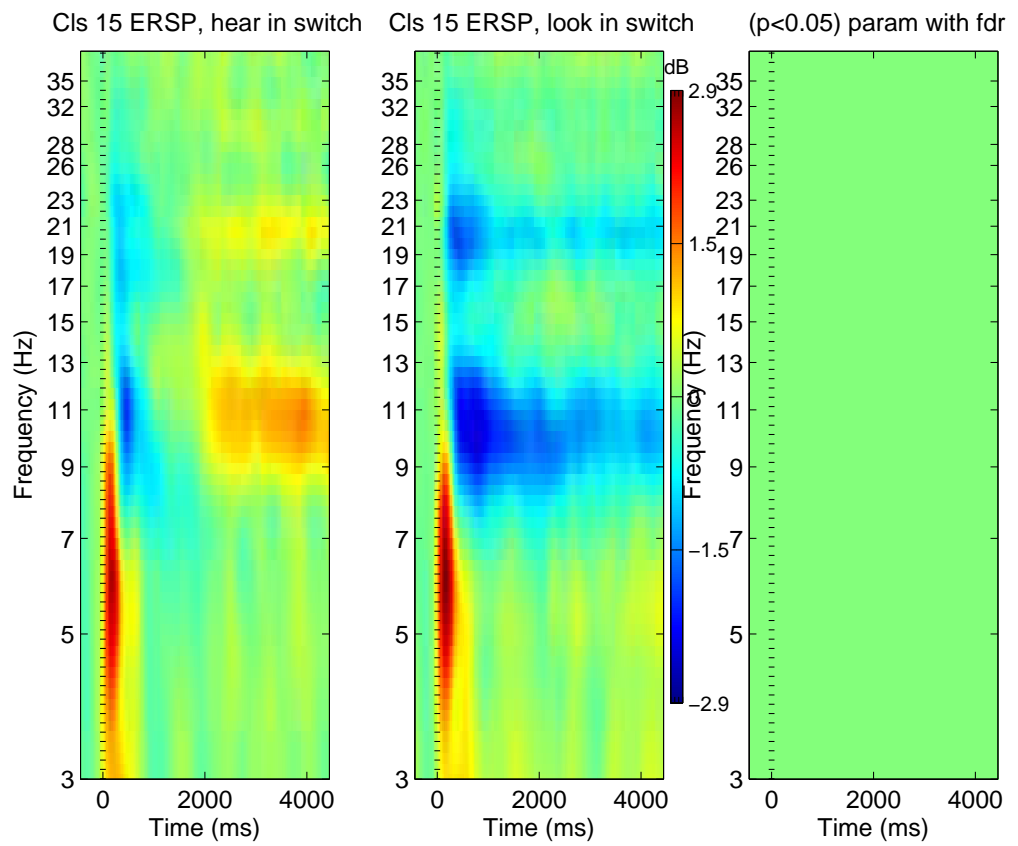


Figure 78: Cluster 15: ERSP

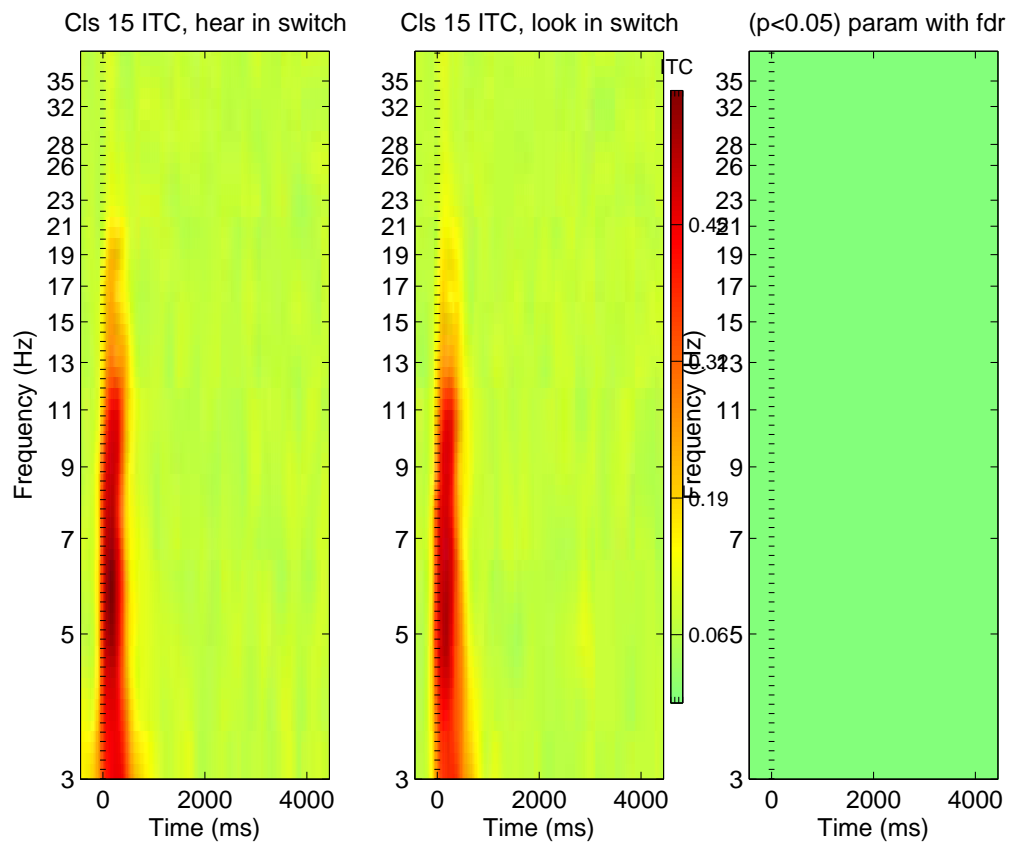


Figure 79: Cluster 15: ITC

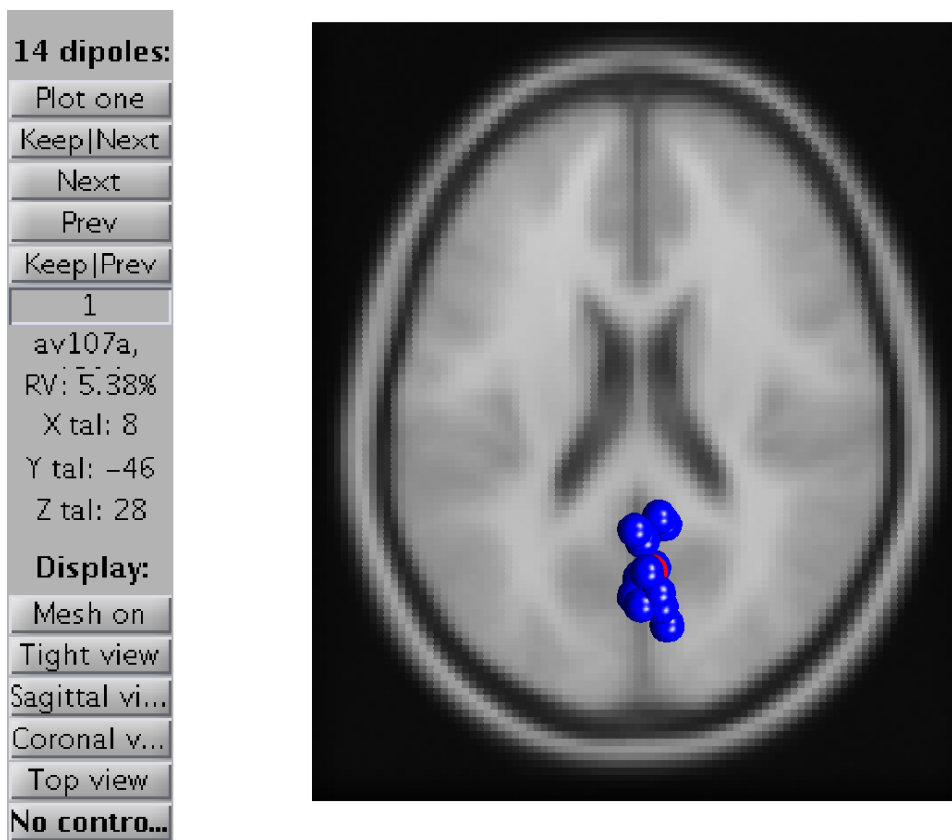


Figure 80: Cluster 16: dipoles

15 Cluster 16

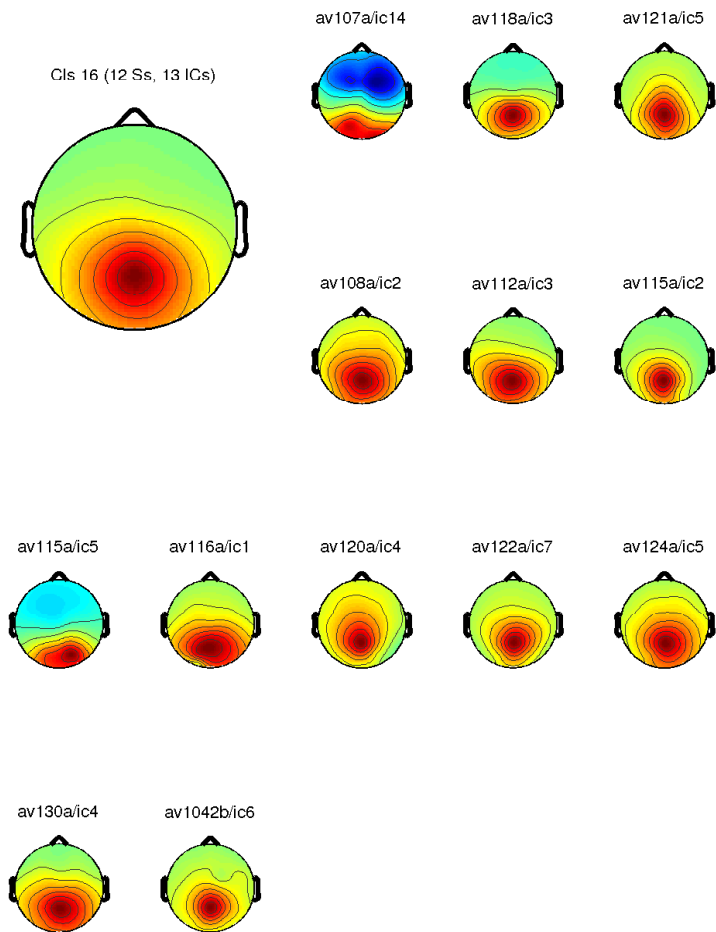


Figure 81: Cluster 16: scalp maps

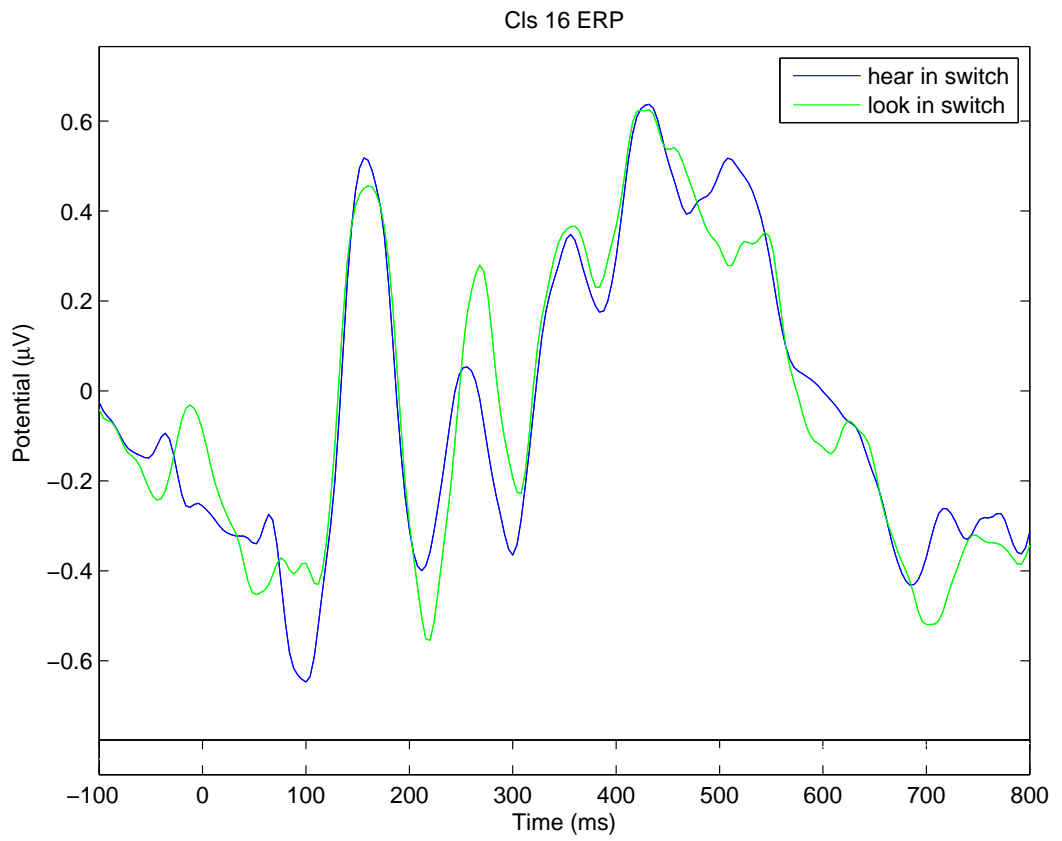


Figure 82: Cluster 16: ERP

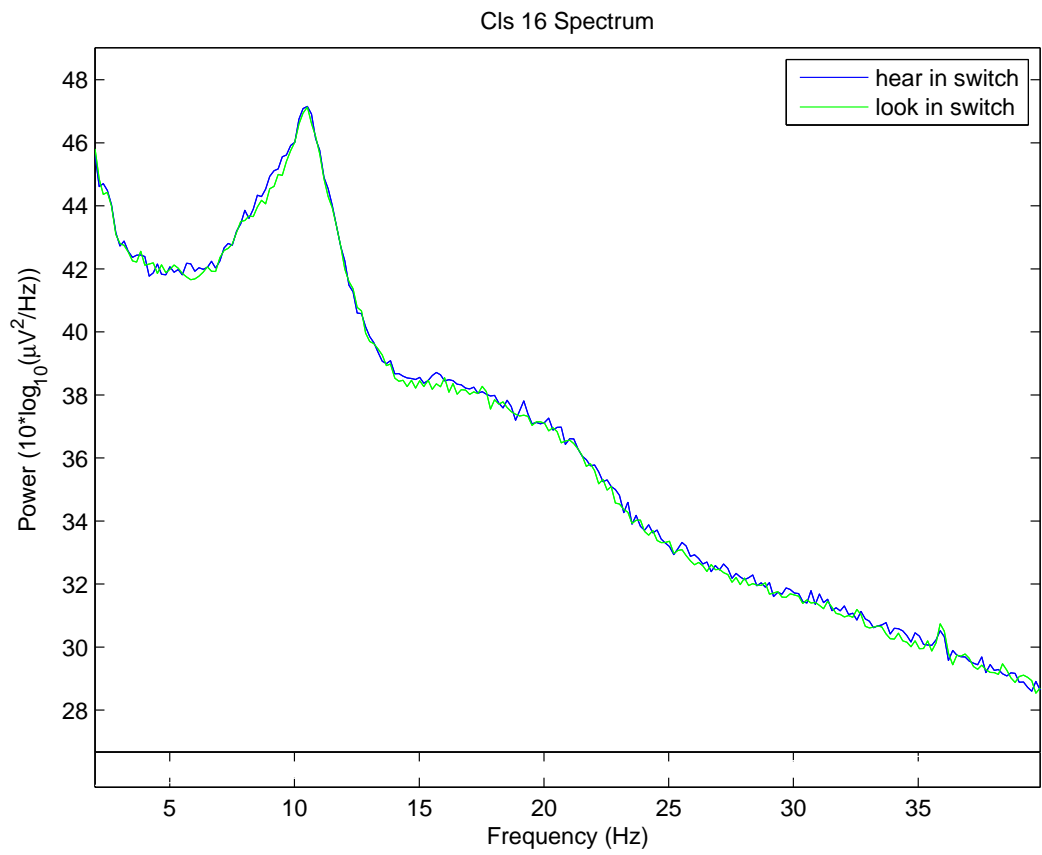


Figure 83: Cluster 16: Spectra

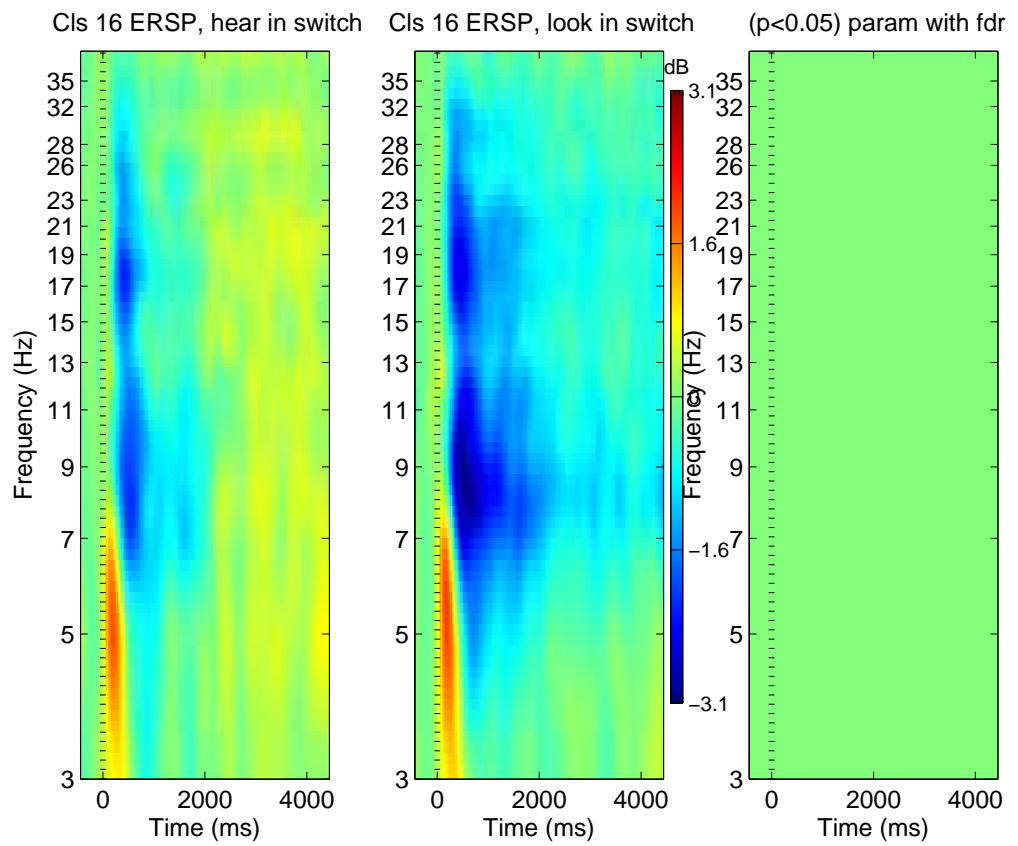


Figure 84: Cluster 16: ERSP

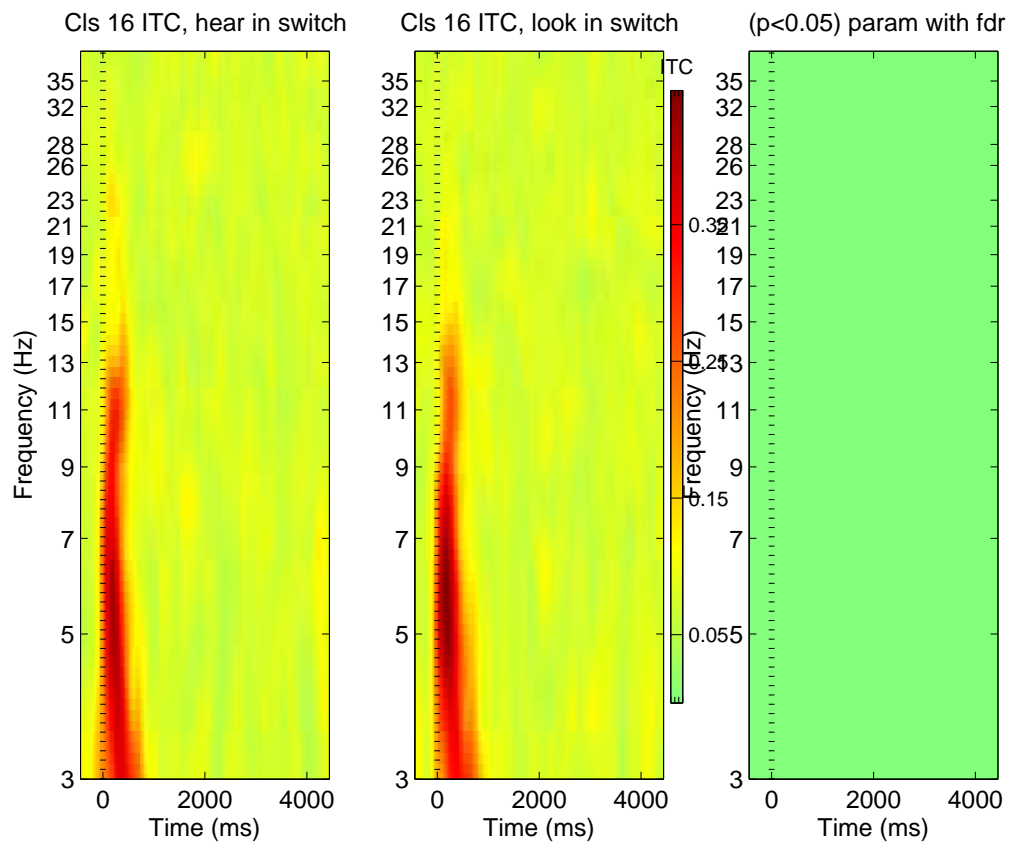


Figure 85: Cluster 16: ITC

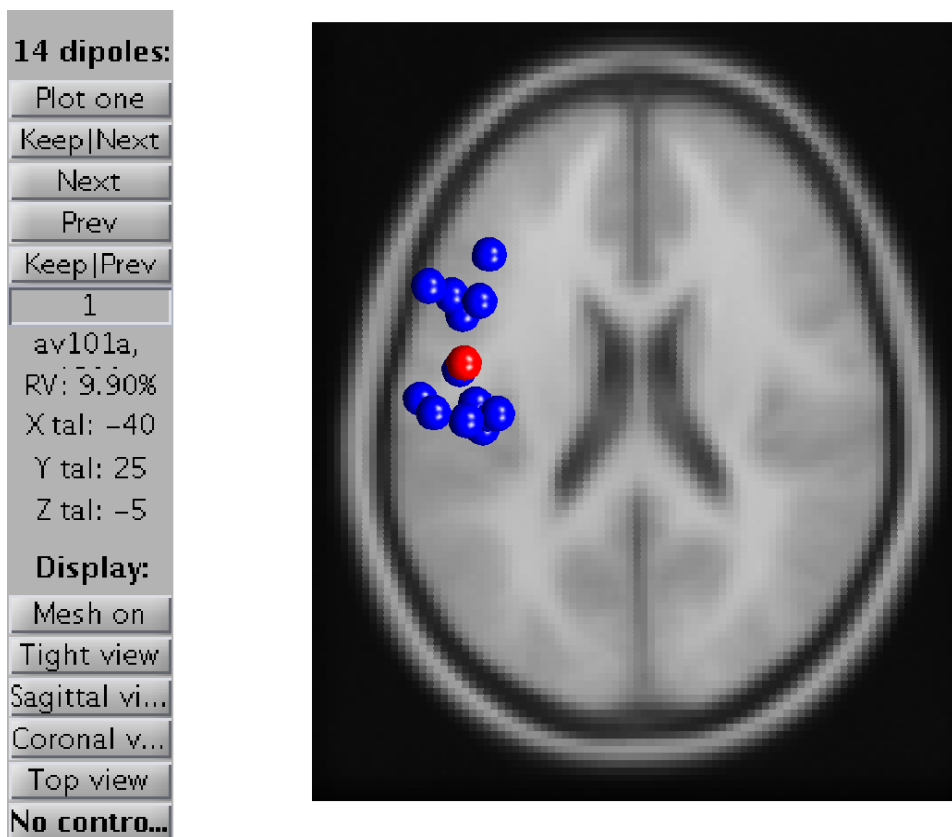


Figure 86: Cluster 17: dipoles

16 Cluster 17

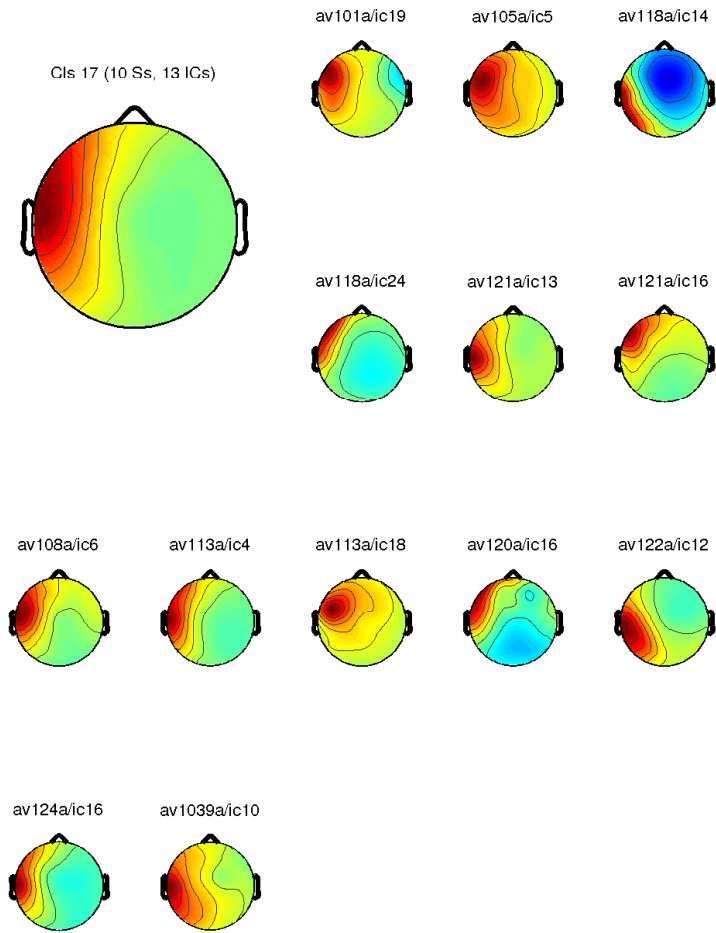


Figure 87: Cluster 17: scalp maps

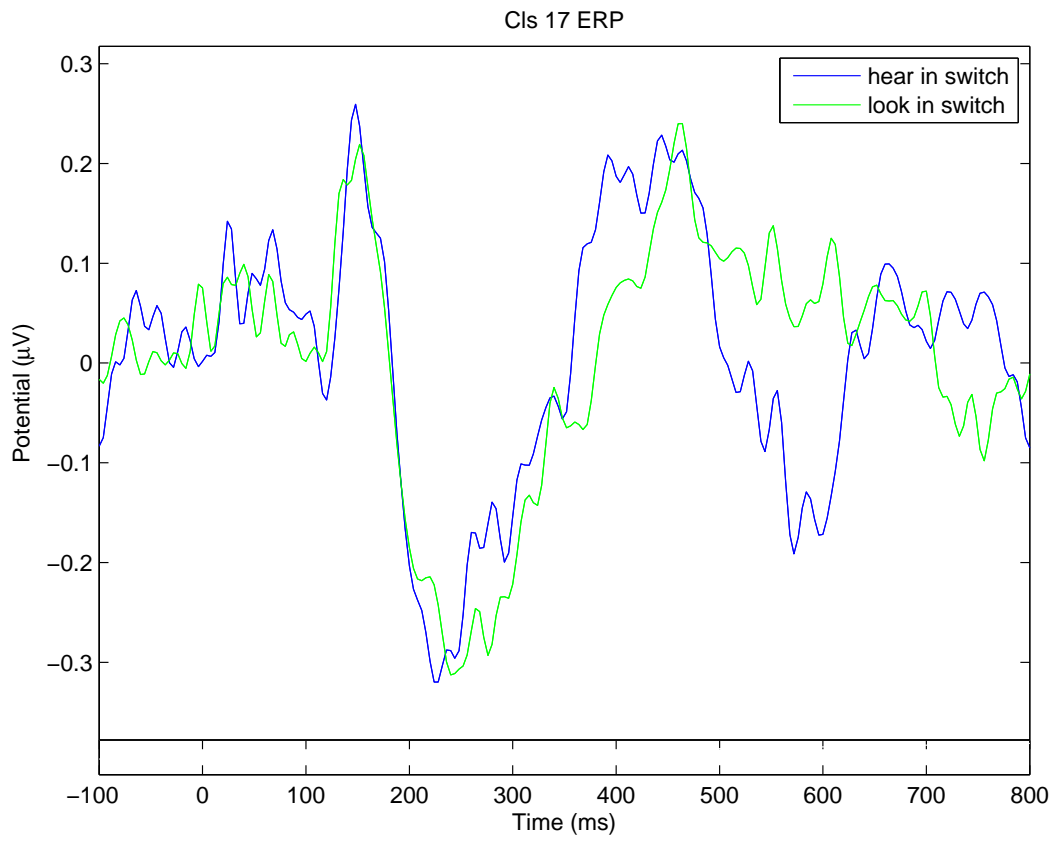


Figure 88: Cluster 17: ERP

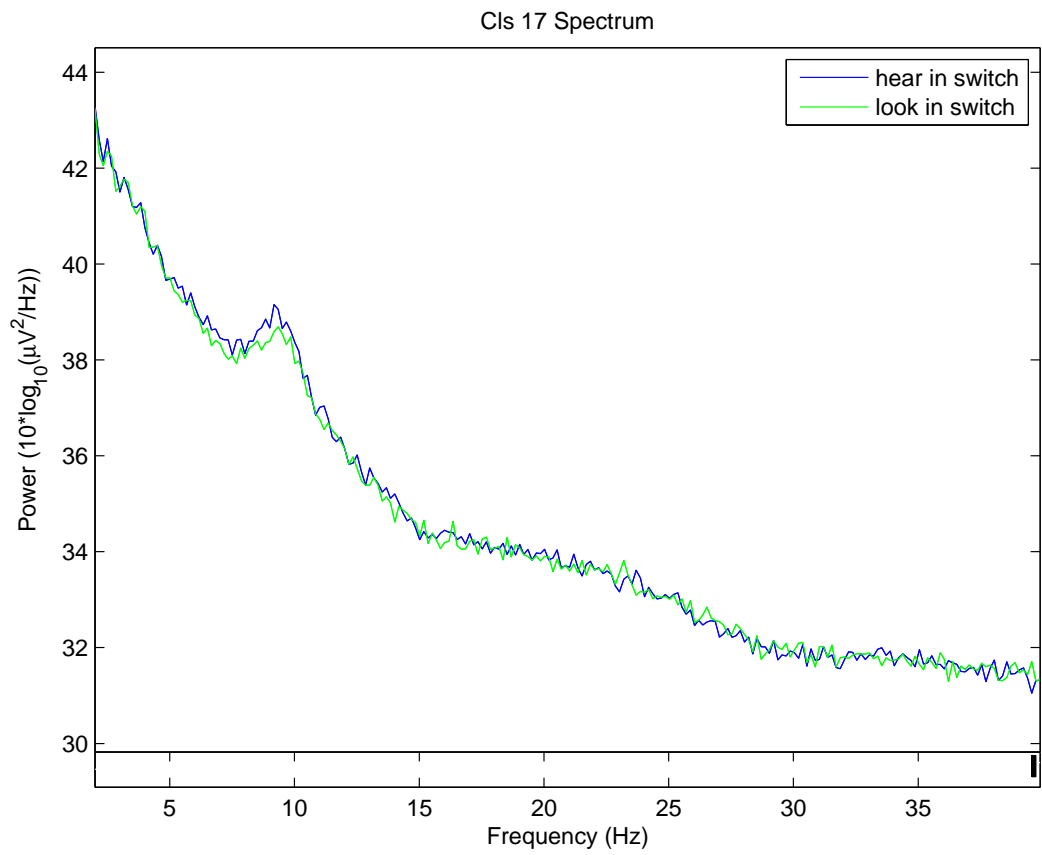


Figure 89: Cluster 17: Spectra

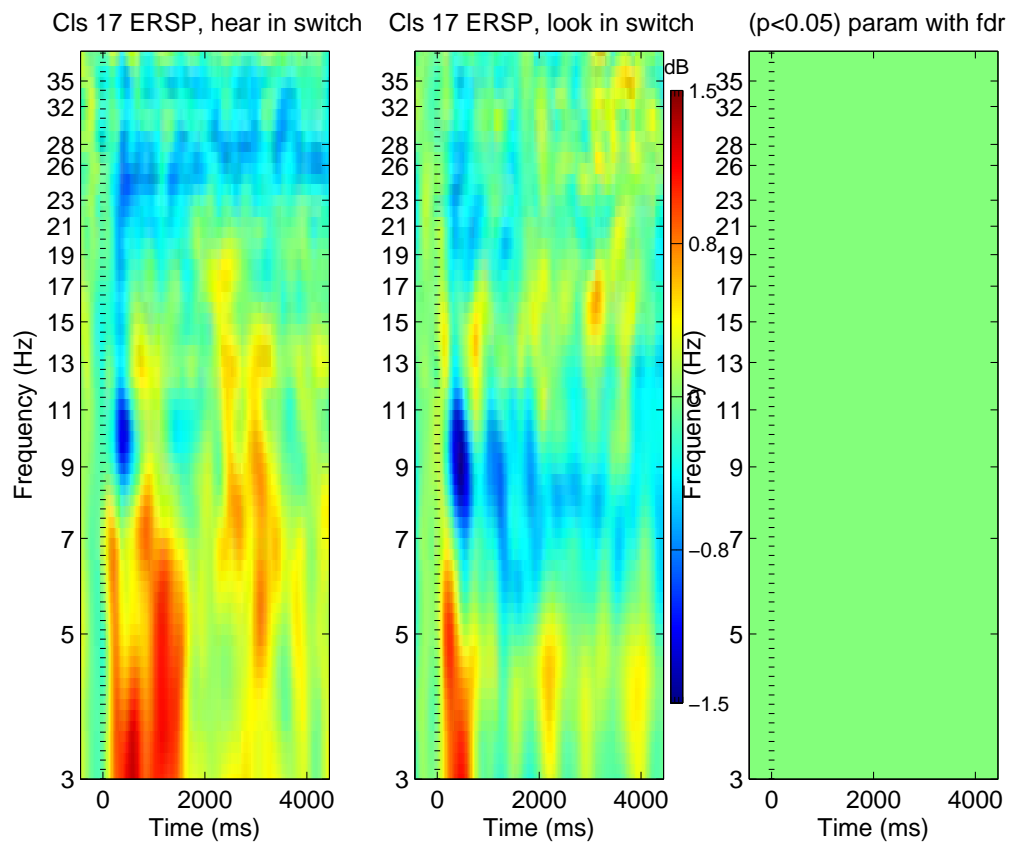


Figure 90: Cluster 17: ERSP

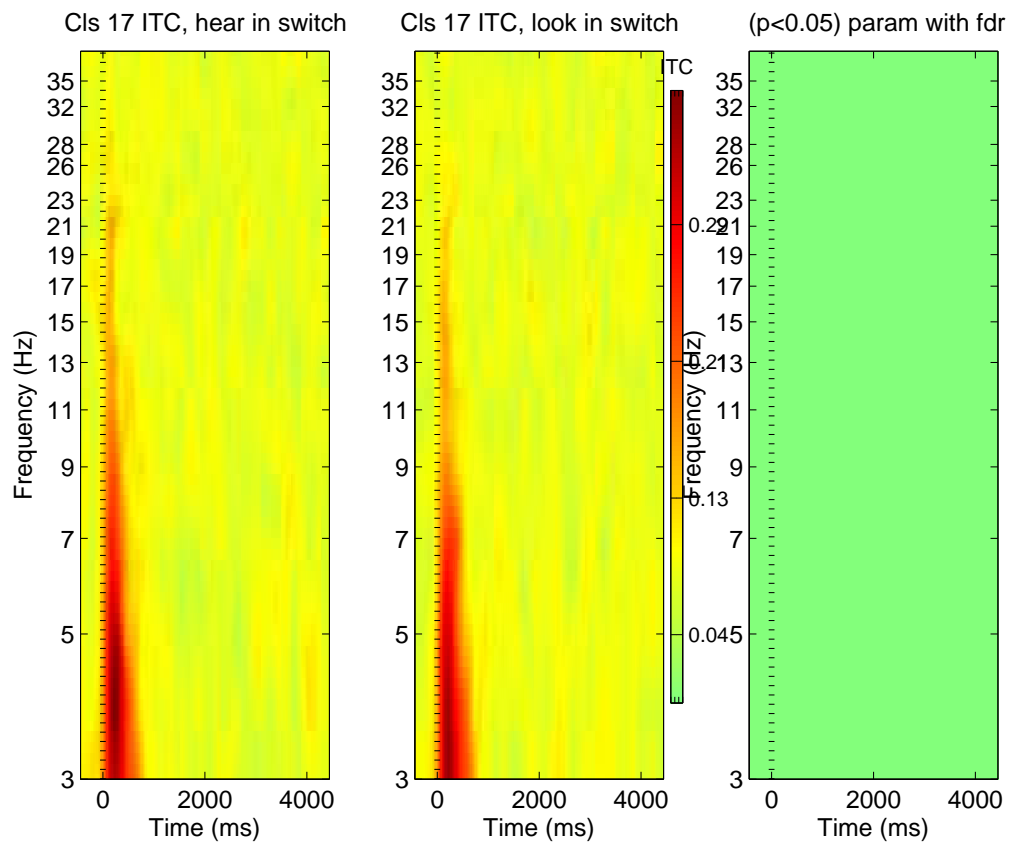


Figure 91: Cluster 17: ITC

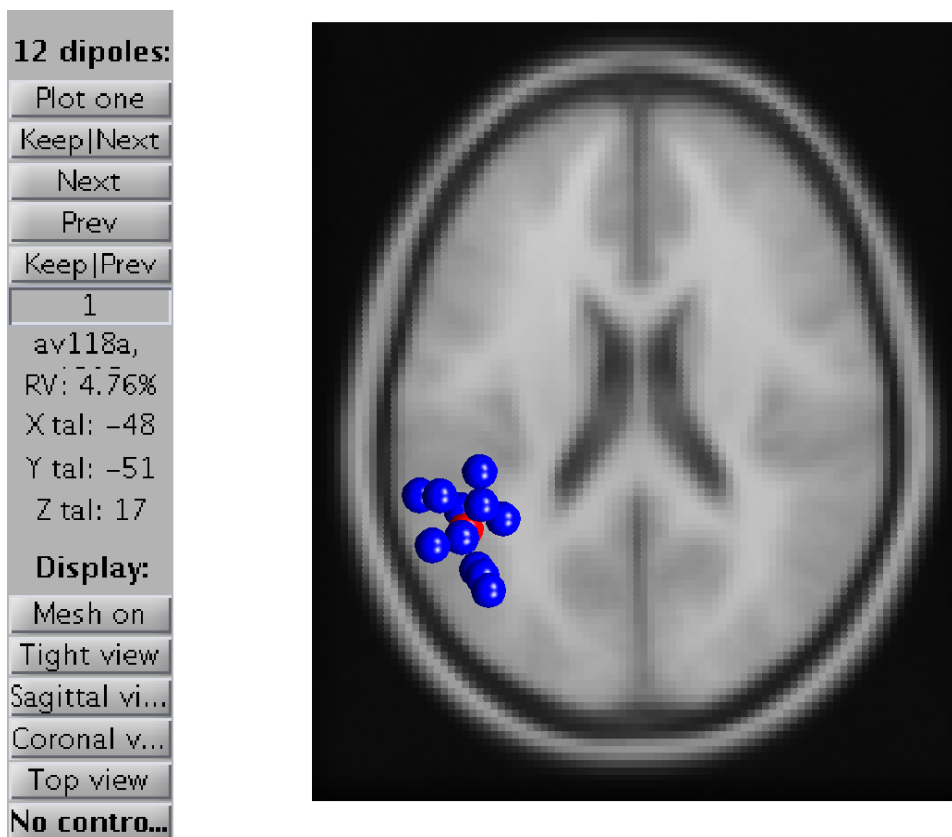


Figure 92: Cluster 18: dipoles

17 Cluster 18

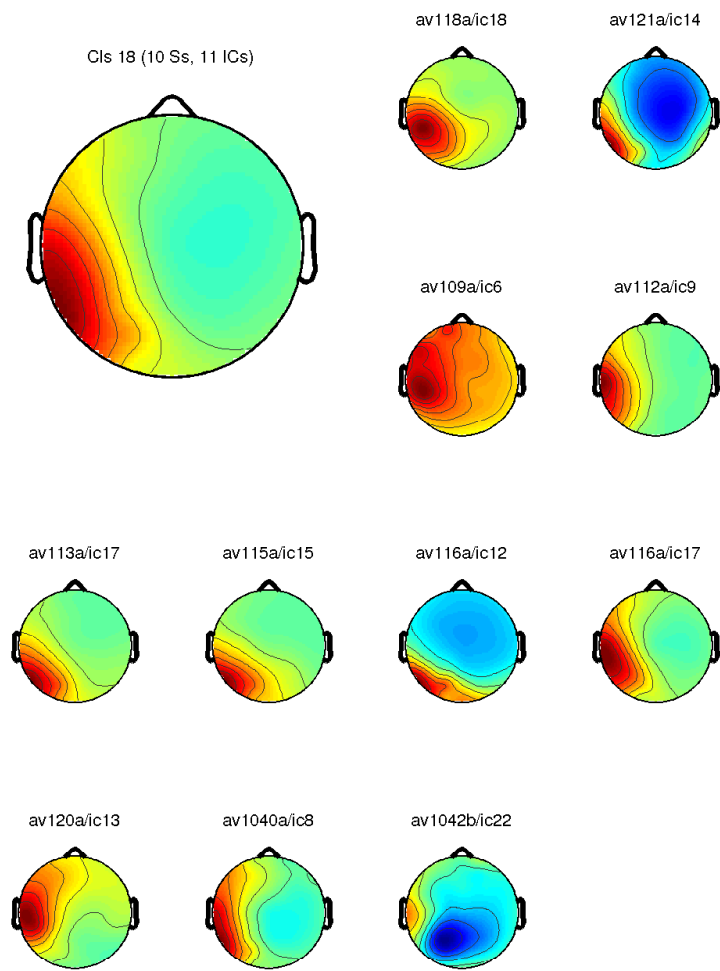


Figure 93: Cluster 18: scalp maps

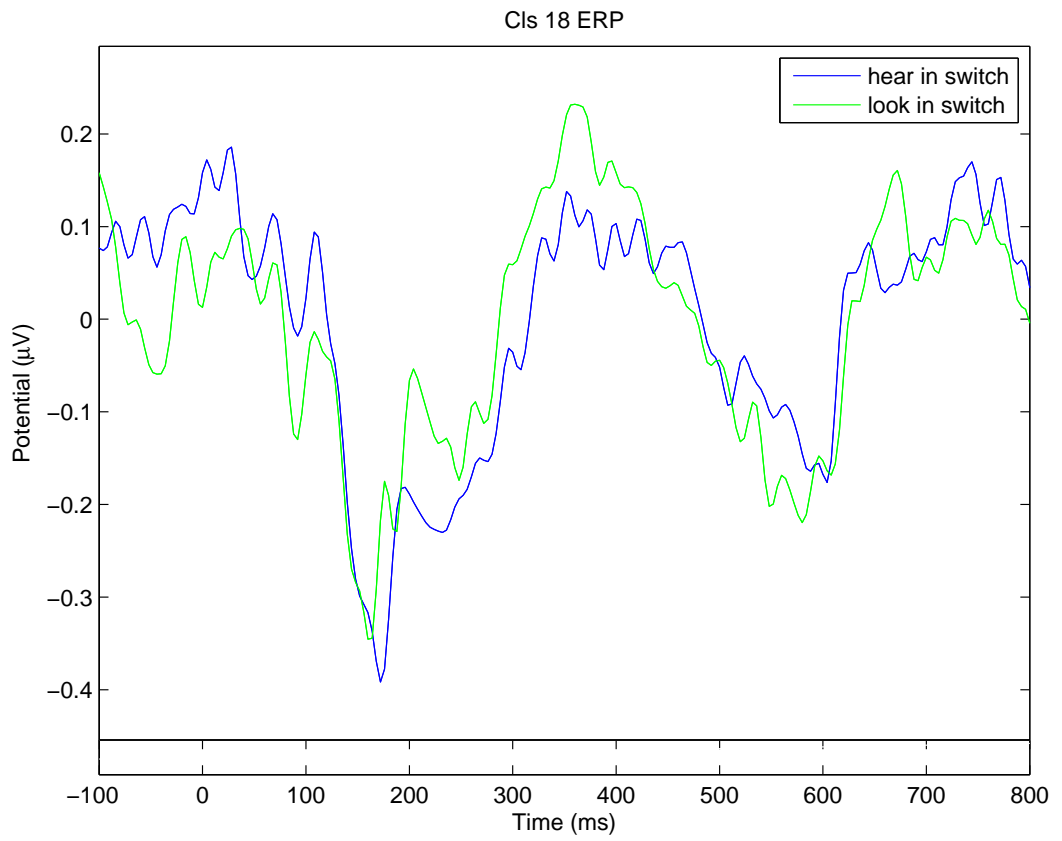


Figure 94: Cluster 18: ERP

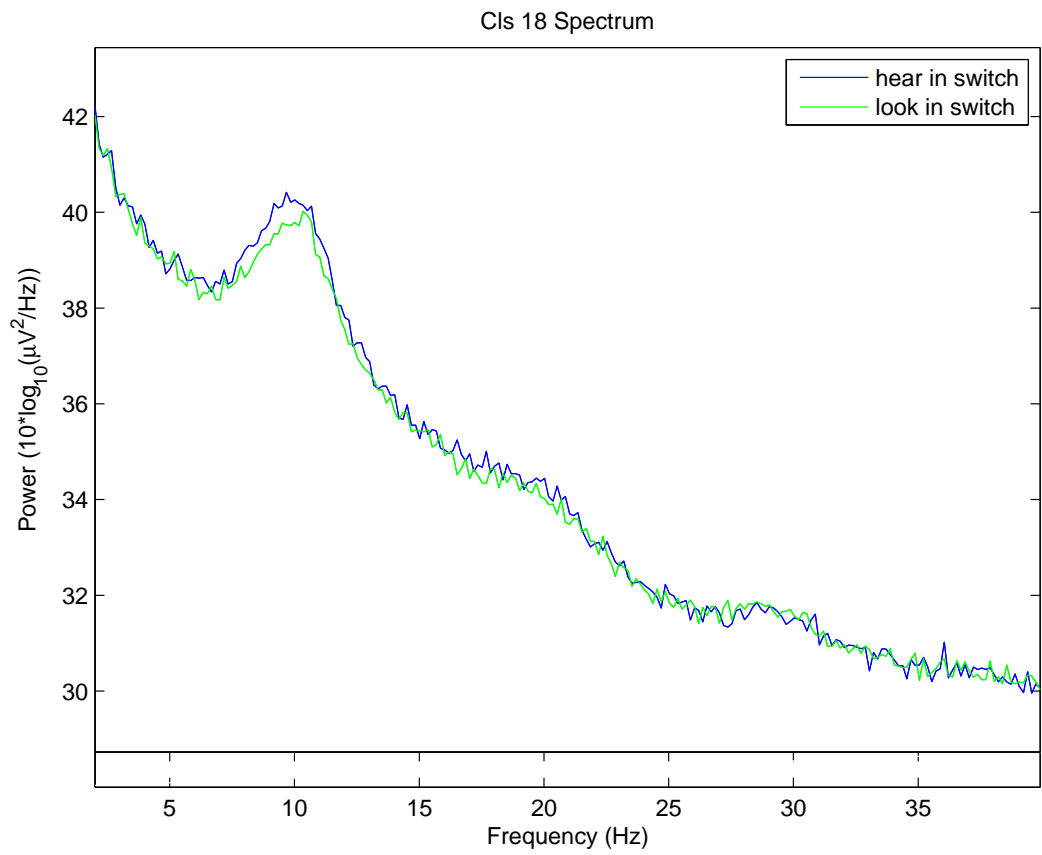


Figure 95: Cluster 18: Spectra

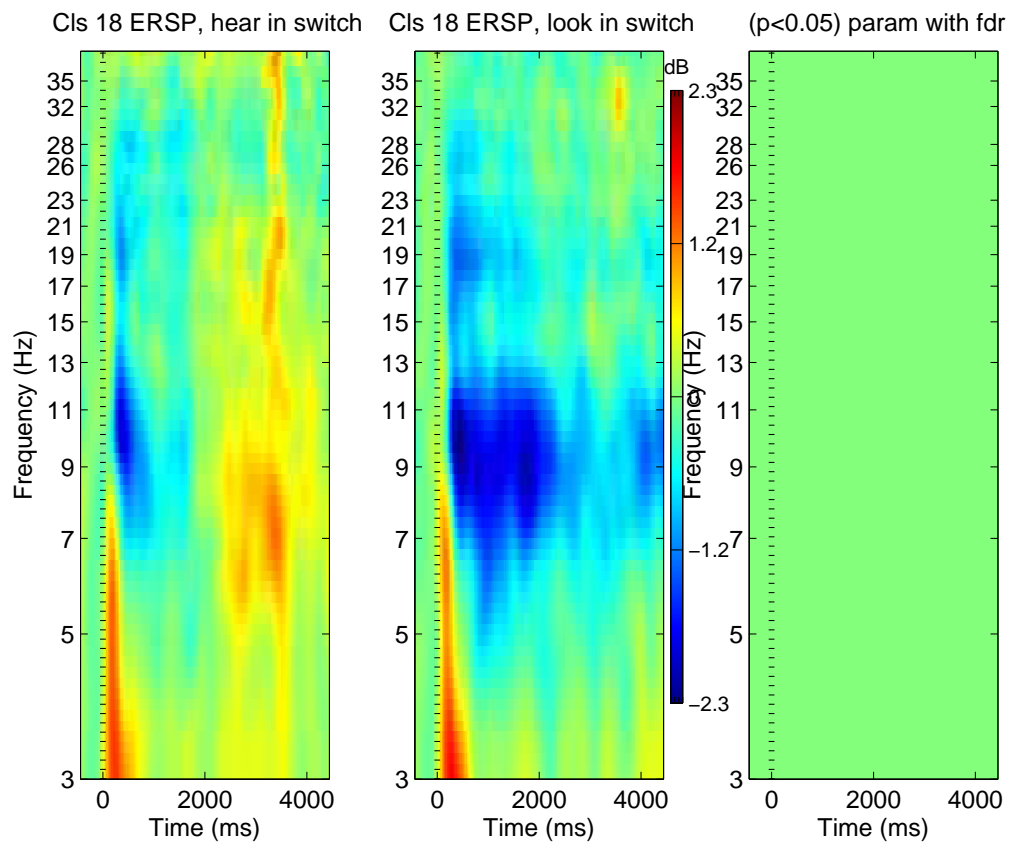


Figure 96: Cluster 18: ERSP

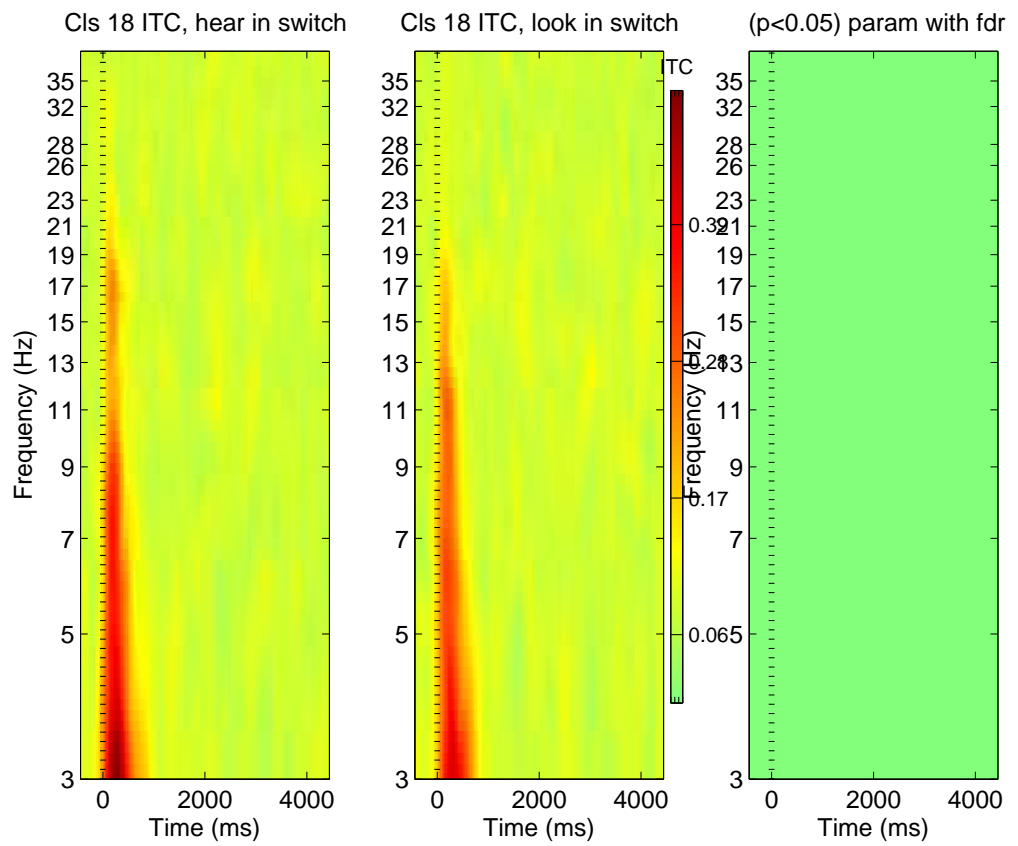


Figure 97: Cluster 18: ITC

9 dipoles:

Plot one

Keep|Next

Next

Prev

Keep|Prev

1

av101a, IC4

RV: 0.67%

X tal: 7

Y tal: 18

Z tal: -50

Display:

Mesh on

Tight view

Sagittal vi...

Coronal v...

Top view

No contro...

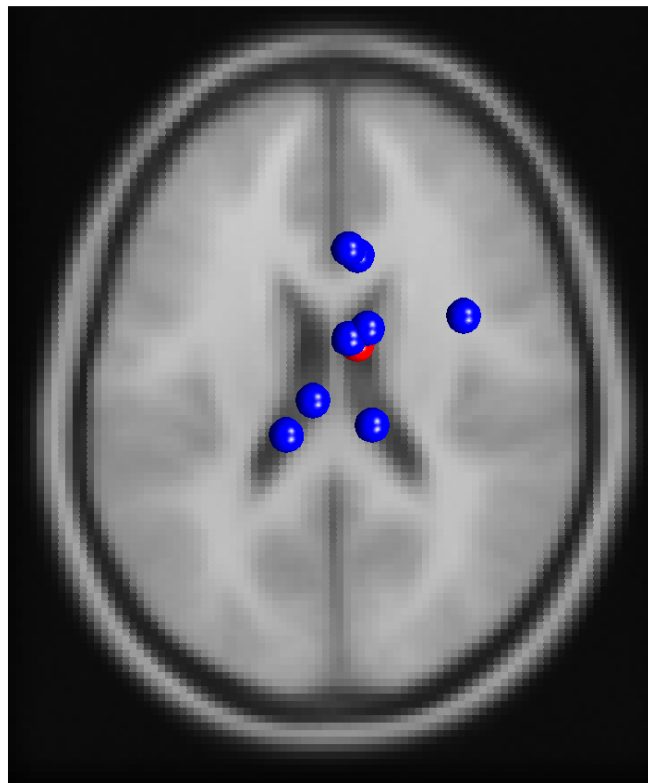


Figure 98: Cluster 19: dipoles

18 Cluster 19

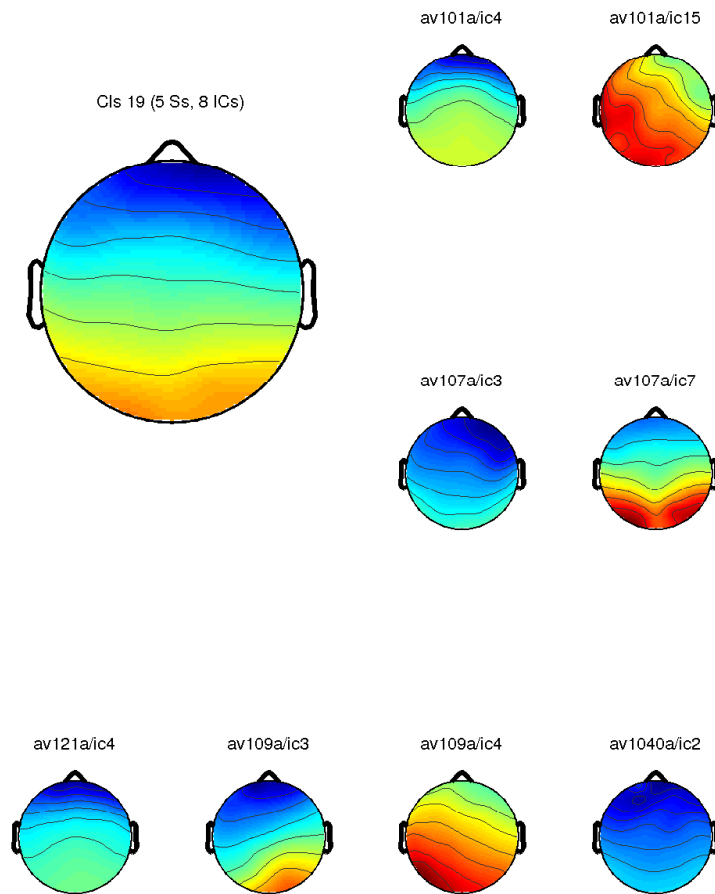


Figure 99: Cluster 19: scalp maps

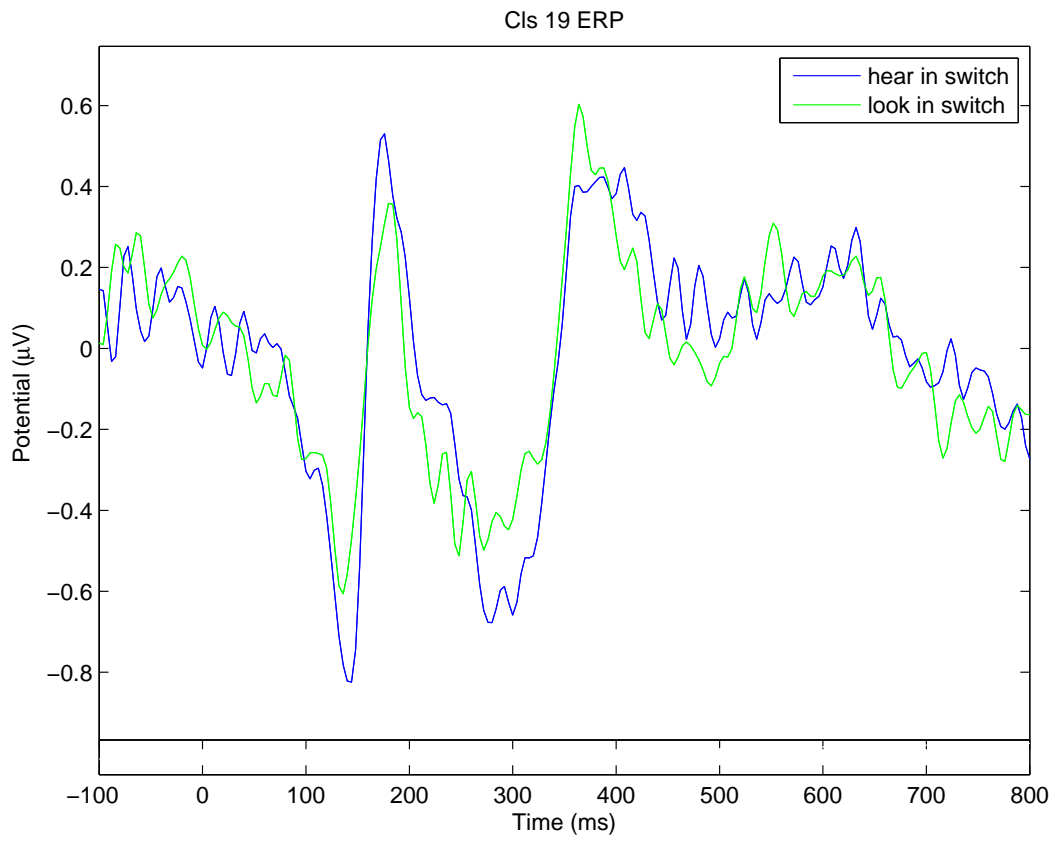


Figure 100: Cluster 19: ERP

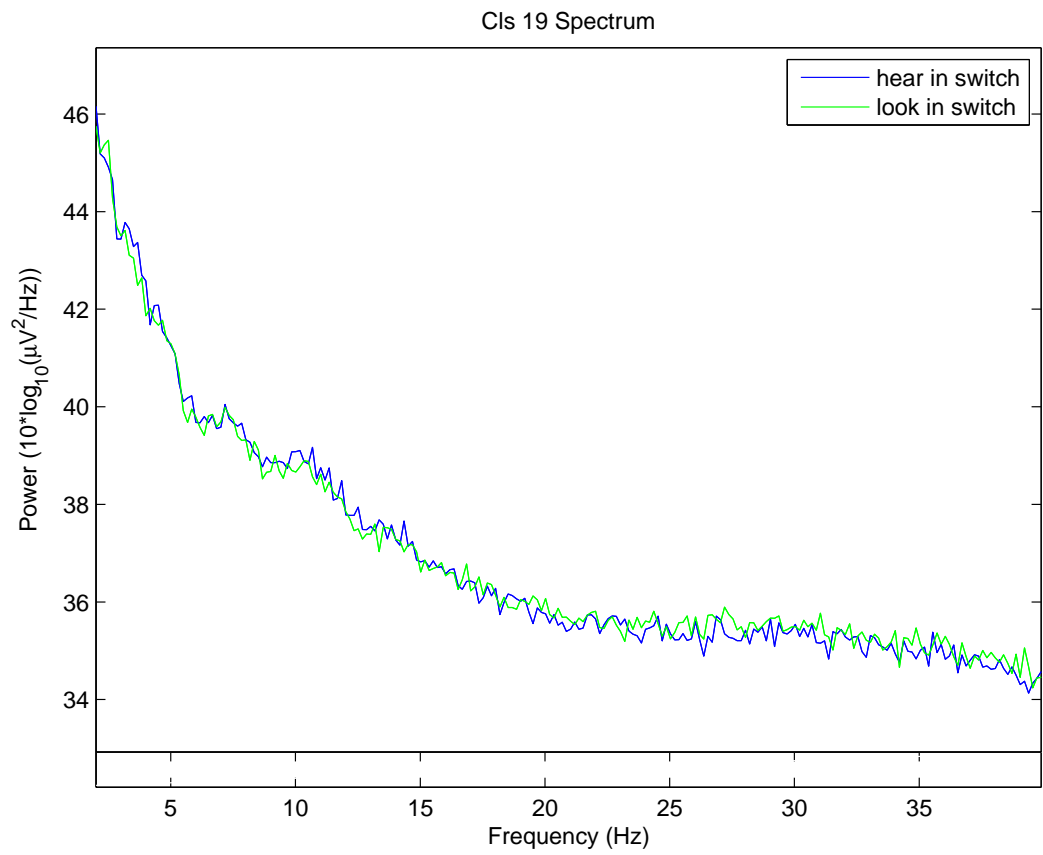


Figure 101: Cluster 19: Spectra

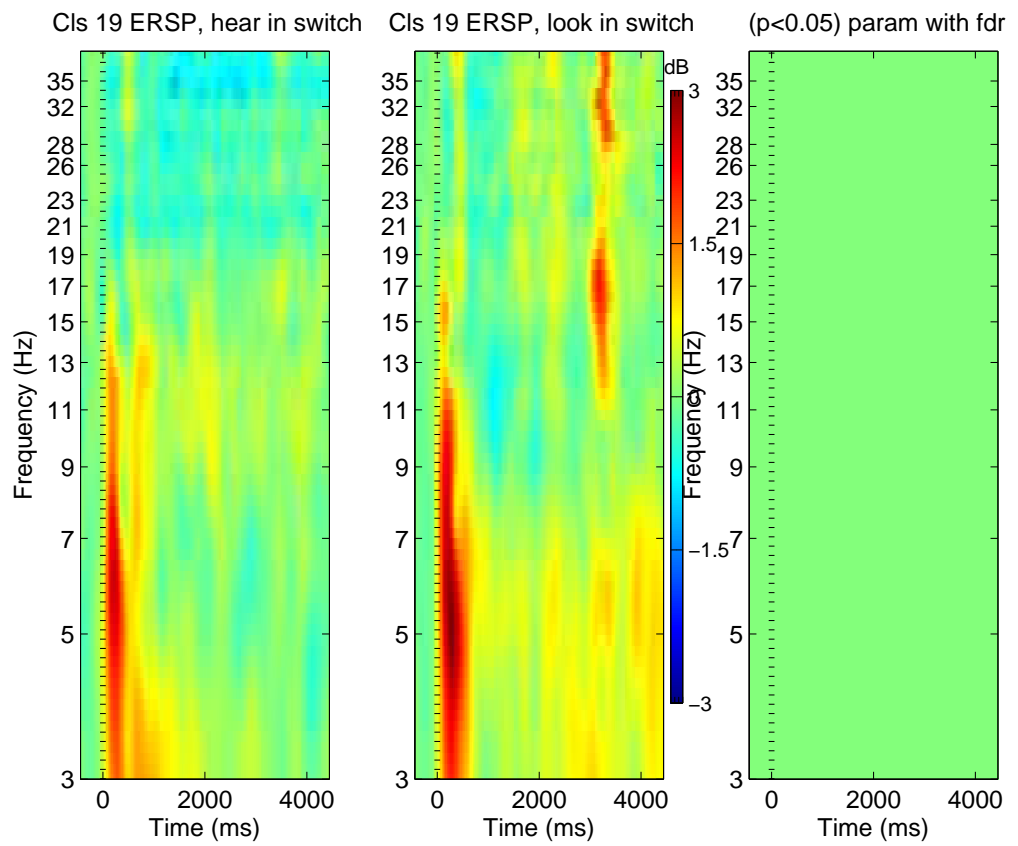


Figure 102: Cluster 19: ERSP

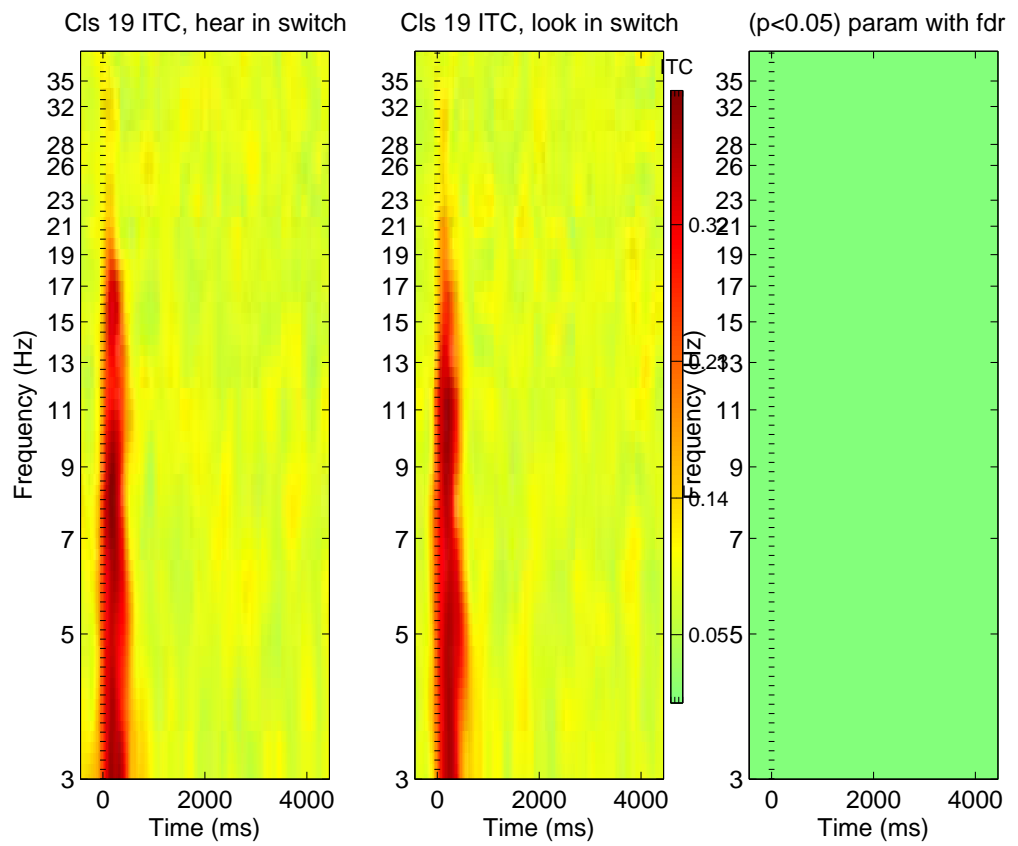


Figure 103: Cluster 19: ITC

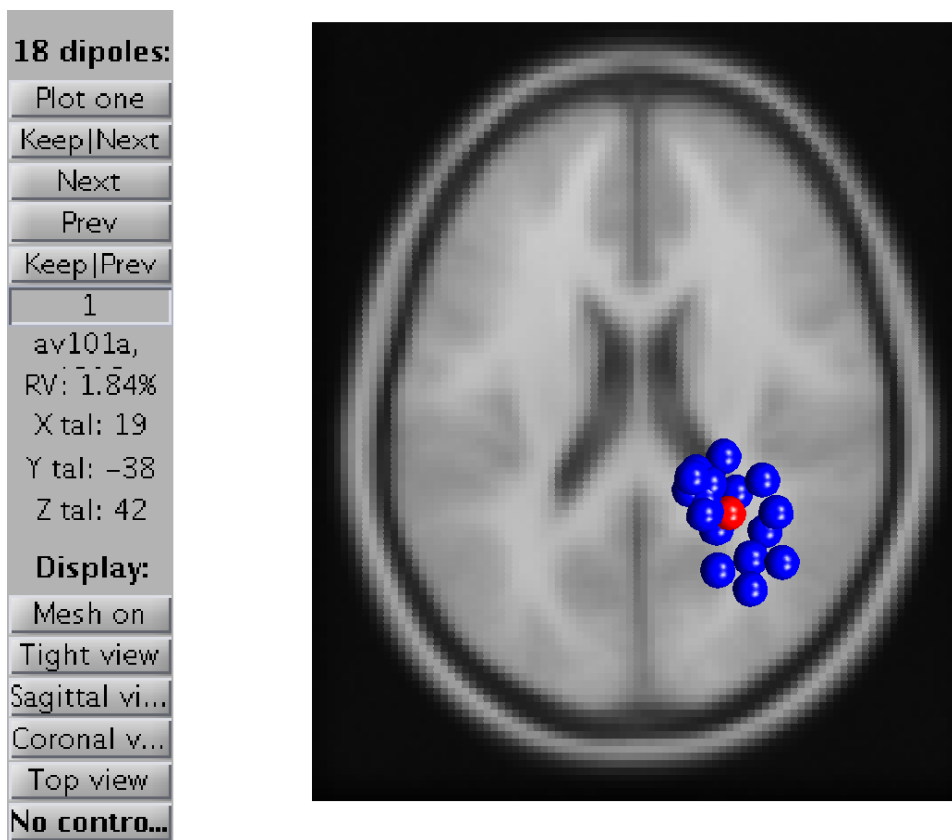


Figure 104: Cluster 20: dipoles

19 Cluster 20

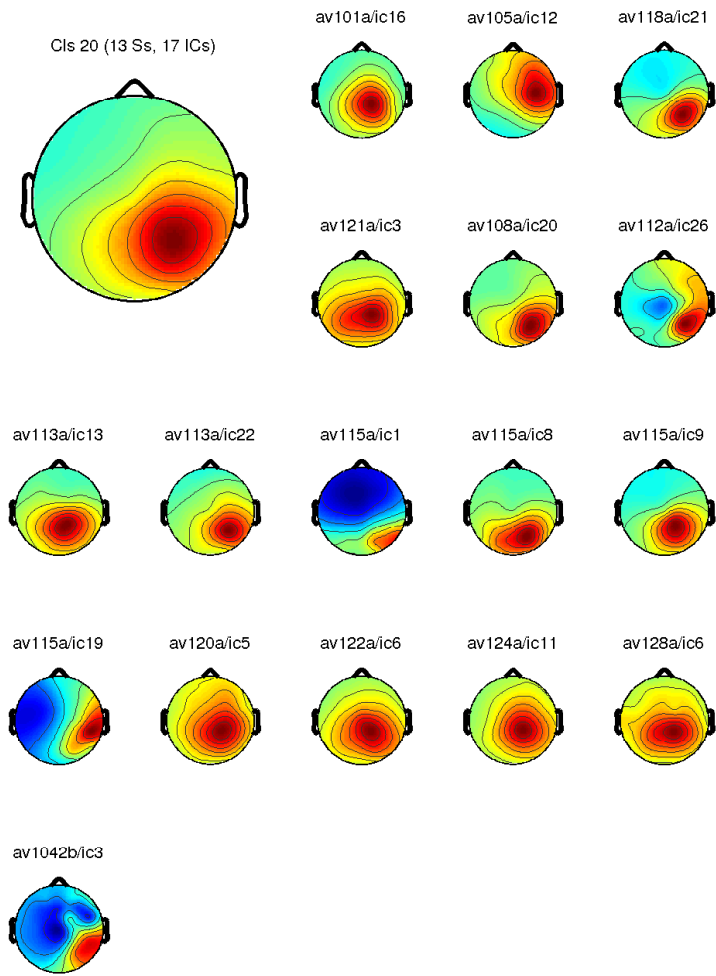


Figure 105: Cluster 20: scalp maps

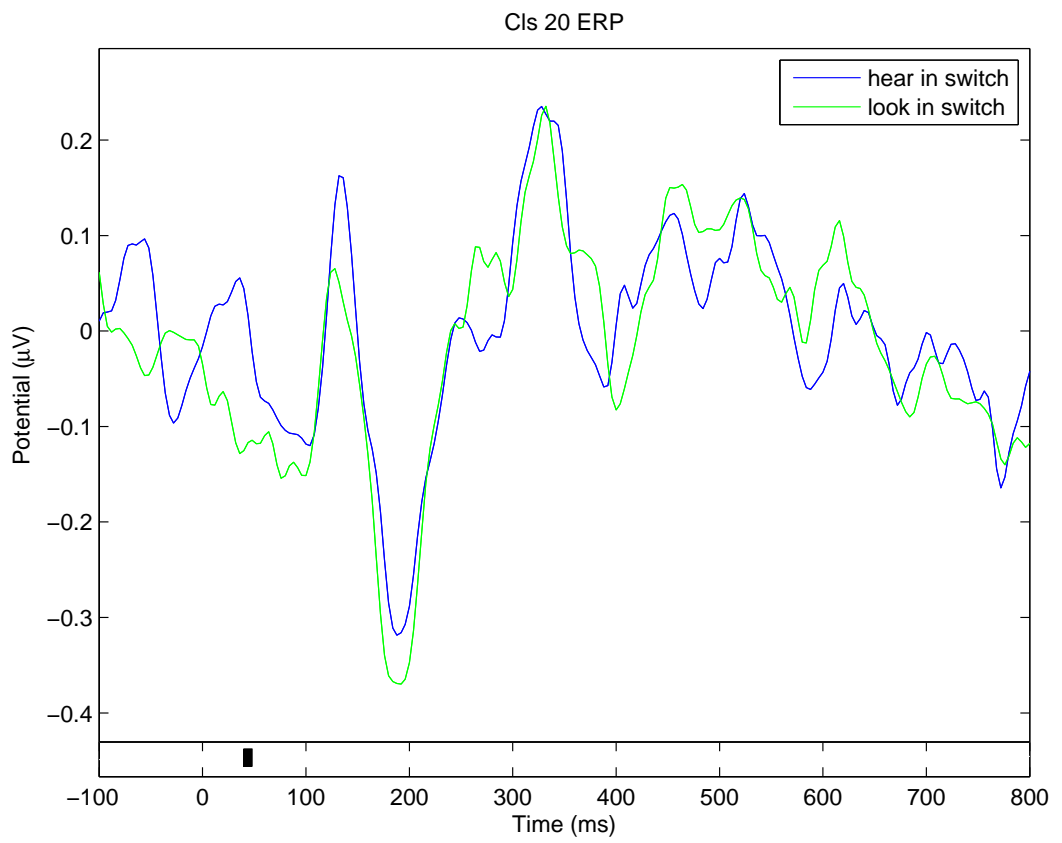


Figure 106: Cluster 20: ERP

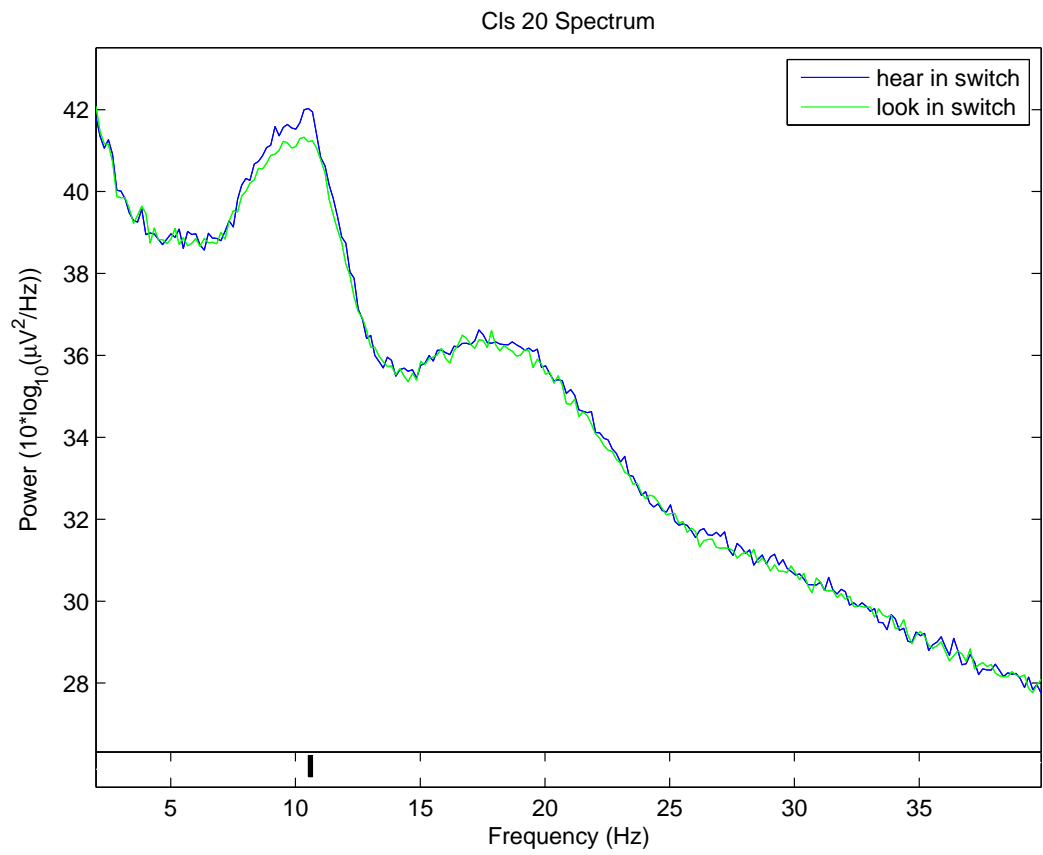


Figure 107: Cluster 20: Spectra

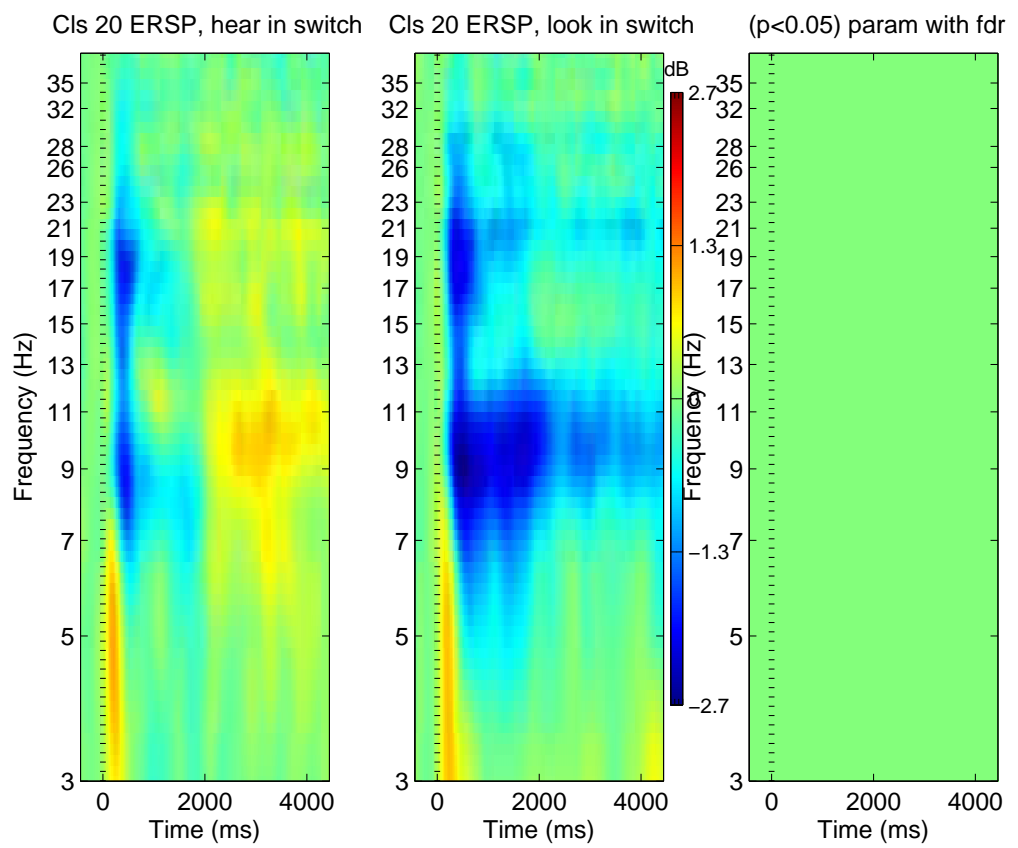


Figure 108: Cluster 20: ERSP

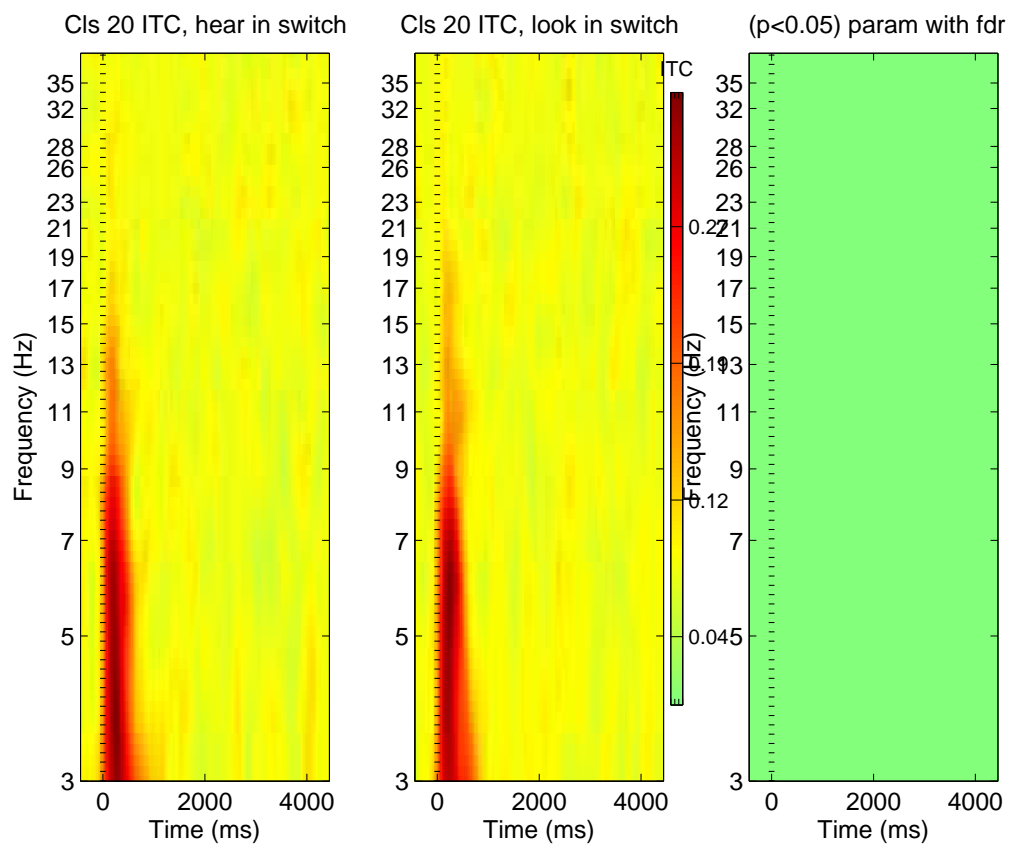


Figure 109: Cluster 20: ITC