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Task 1 Plot cluster summaries Task 2 Plot individual ICs Task 3 Plot using statistical thresholds Task 3 Eliminate/reassign ICs





#### **View and edit clusters**



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File	Edit	Tools	Plot	Study	Datasets	Help	۲ ۲		
	стн			Edit	t study info				
	-310	DISE	AI	Pre	compute ch	annel mea	sures		
	Study	filenar	ne:	Plot channel measures					
	Study	task n	ame	Pre	compute co	mponent n	neasure	s	
	Nb of subjects			Build preclustering array					
	ND OT ND of	condit Sessio	ions ns	Cluster components					
	Nb of	group:	5	Edit	t/plot cluste	rs			
	Epoch	n consis	stency	∕ ye	25				
	Chan	nels pe	r fran	ne 30	1				
	Chan	nel loca	ations	y€	25				
	Clust	ers		21	7				
	Status	s		Pr	re-cluster	ed			
	Total	size (M	b)	33	2.7				

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## View and edit clusters



#### **Plot clusters**



#### **Plot clusters**



#### **Plot clusters**



## Plot ERPs



## 



Each blue trace is the ERP of a different component

#### **Plot cluster spectra**



# Plot cluster spectra



Each blue trace is the power spectrum of a different component

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#### **Plot cluster ERSPs**

Study 'Attention': 181 of 181 o	omponents	clustered	
Select cluster to plot		Select component(s) to plot	
Cls 6 (3 ICs) Cls 7 (10 ICs) Cls 8 (5 ICs) Cls 8 (12 ICs)		All components S01 IC6 S05 IC9 S06 IC12	
Plot scalp maps		Plot scalp map(s)	
Plot dipoles		Plot dipole(s)	
Plot ERPs	Params	Plot ERP(s)	
Plot spectra	Params	Plot spectra	
Plot ERSPs	Params	Plot ERSP(s)	
Plot ITCs		Plot ITC(s)	
Plot c		Set ERSP[IIC plotting parameters pop_erspparams()	
Crea Time ran Renam Freq. ran Me Power Iir	ge in ms [Low ge in Hz [Low nits in dB [Lo Con	w High] 0 1500 w High] 0 40 w High] ITC limit (0–1) [High] mpute ERSP baseline across conditions	
Save S	<b>N</b>		
Statistics Data for Ca	s statistics V Con Con	Parametric  Use means mpute condition statistics mpute group statistics	0.01

## **Plot cluster ERSPs**



#### **Remove outlier components**



#### **Remove outlier components**

View and edi	it current component clusters pop_clustedit()				
Select cluster to plot	Select component(s) to plot				
Cls 13 (5 ICs) Cls 14 (11 ICs) Cls 15 (8 ICs) Cls 16 (6 ICs) Cls 17 (4 ICs)	△ All components S07 IC14 S07 IC33 S08 IC23 S10 IC60				
Plot scalp maps	Plot scalp map(s)	<b>1</b> ,			
Plot dipoles 🛛 🐼	Remove outliers - from pop_clustedit()				
Plot ERPs	Remove currently selected component below from CIs 17 to its outlier clust				
Plot spectra					
Plot ERSPs					
Plot ITCs					
Plot cluster properties					
	Cancel	Ok			
Create new cluster		1			
Rename selected cluster	Remove selected outlier comps.				
Merge clusters	Auto-reject outlier components				
Save STUDY set to disk	/home/julie/workshop06/5subjects/WSstudy.study				
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#### **Remove outlier components**

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## **Reassign component**



#### **Reassign component**



#### **Reassign component**



#### **Rename a cluster**



#### Create a new cluster

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#### You found a bunch of 'outliers' that seem well-matched



#### **Create a new cluster**



#### **Create a new cluster**



#### **New cluster created**



## Exercise

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#### Novice

- Use the GUI to plot cluster and component data using default parameters

#### Intermediate

- Use the GUI to plot cluster and component data trying out different plotting parameters such as x/y-axis limits, and color scale limits to compare absolute values across clusters.

- Apply statistical thresholds of your choice

#### Advanced

- Practice re-assigning an IC from one cluster to:

1) an outlier cluster

2) another cluster

- Create and name a new cluster, fill with your choice of ICs