# DFTvc MB etude1

## September 30, 2024

## La bibil à RORO loaded

La surface utilisée est fsaverage5 avec 20484 points tandis que la fsaverage standard comporte 64984 points

patients: 104

pts in the study 1 83

nb pts witout controls : 83

## Nom MagneticFieldStrength

	Wom	magnotter retablitiong on
ID_IRM		
PSY006	BLANCHARD	1.5
PSY001	BAILLOEUIL	3.0
PSY011	BUISINE	NaN
PSY005	BILLON	3.0
PSY113	BOULET	1.5
•••	•••	•••
PSY109	ROSTANE	NaN
PSY087	READY	NaN
PSY110	SAINT OMER	NaN
PSY088	SOUILLART	1.5
PSY089	TOREL	3.0

## [83 rows x 2 columns]

Table de contingence pour GROUPE: MagneticFieldStrength 1.5 3.0

GROUPE

PPD 11 14 bvFTD 19 23

Résultats du test du chi-carré pour GROUPE:

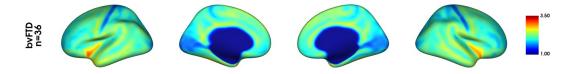
Chi2: 0.0 p-value: 1.0

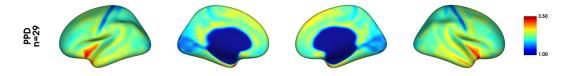
Degrees of freedom: 1
Expected frequencies:
[[11.19402985 13.80597015]
[18.80597015 23.19402985]]

Il n'y a pas de différence significative entre les groupes GROUPE (p  $\geq$  0.05). Table de contingence pour SOUS\_GROUPE:

```
MagneticFieldStrength 1.5 3.0
SOUS_GROUPE
                              7
                         4
ADS
BPD
                         5
                              5
                        19
                             23
bvFTD
Résultats du test du chi-carré pour SOUS_GROUPE:
Chi2: 0.42662337662337674
p-value: 0.8079042836464447
Degrees of freedom: 2
Expected frequencies:
[[ 4.88888889 6.11111111]
 [ 4.4444444 5.5555556]
 [18.66666667 23.333333333]]
Il n'y a pas de différence significative entre les groupes SOUS_GROUPE (p >=
0.05).
sub-PSY113
sub-PSY007
sub-PSY116
sub-PSY016
sub-PSY019
sub-PSY017
sub-PSY022
sub-PSY026
sub-PSY031
sub-PSY051
sub-PSY069
sub-PSY064
sub-PSY070
sub-PSY102
sub-PSY119
sub-PSY120
sub-PSY106
sub-PSY087
65 sujets
```

figure\_title : /NAS/dumbo/protocoles/PSY\_bvFTD/screenshots/CTSurface\_groupscompa
rison\_GROUPE\_vs\_bvFTD.jpg

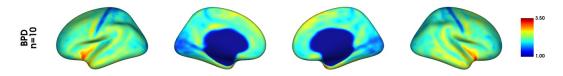




figure\_title : /NAS/dumbo/protocoles/PSY\_bvFTD/screenshots/CTSurface\_groupscompa
rison\_SOUS\_GROUPE\_vs\_bvFTD.jpg



figure\_title : /NAS/dumbo/protocoles/PSY\_bvFTD/screenshots/CTSurface\_groupscompa
rison\_SOUS\_GROUPE\_vs\_BPD.jpg



figure\_title : /NAS/dumbo/protocoles/PSY\_bvFTD/screenshots/CTSurface\_groupscompa
rison\_SOUS\_GROUPE\_vs\_ADS.jpg



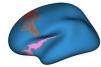
\*\*\*\*\*\*\*\*\*

Group comparison between bvFTD and PPD

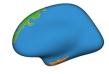
First Fitting the model  $% \left( 1\right) =\left( 1\right) \left( 1\right) \left$ 

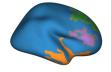
Second Fitting the model













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### clusters infos :

#### \*\*\*\*

	clusid	nverts	s resel	S	Ρ
0	1	728.0	17.137941	0.000003	
1	2	535.0	16.676543	0.000003	
2	3	325.0	10.903597	0.000003	
3	4	271.0	10.147342	0.000003	
4	5	164.0	6.295821	0.000038	
5	6	215.0	5.745609	0.000087	

\*\*\*\*

## peaks infos :

### \*\*\*\*

		t	clusid	vertid		P
0	4.500129		1	20481	0.081132	
1	4.499293		2	19214	0.081335	
2	4.486786		4	16434	0.084618	
3	4.388554		2	13761	0.114878	
4	4.351863		4	16179	0.128581	
					•••	
140	2.629278		1	20440	10.729872	
153	2.558385		2	18858	12.301703	
161	2.521723		2	19019	13.183173	
171	2.463514		1	10443	14.672771	
172	2.461902		1	15779	14.716540	

[84 rows x 4 columns]

cluster\_1

/home/global/Anaconda3-2023.09/lib/python3.11/site-packages/seaborn/\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is

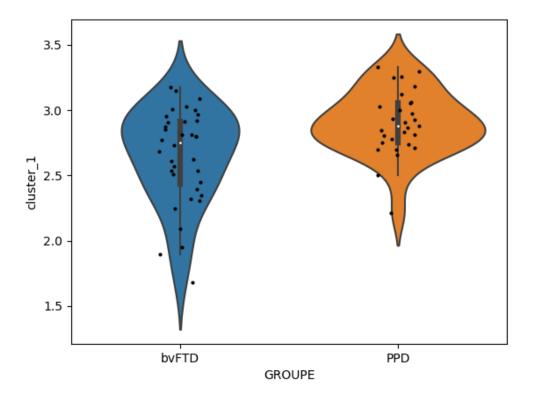
deprecated and will be removed in a future version. Convert inf values to NaN before operating instead.

with pd.option\_context('mode.use\_inf\_as\_na', True):

/home/global/Anaconda3-2023.09/lib/python3.11/site-

packages/seaborn/\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is deprecated and will be removed in a future version. Convert inf values to NaN before operating instead.

with pd.option\_context('mode.use\_inf\_as\_na', True):

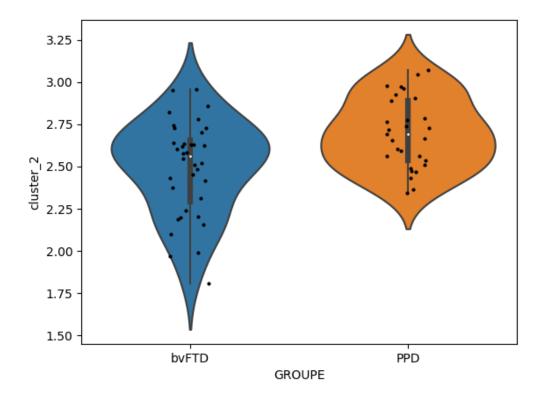


T-Test (oneside): -3.323 and p\_value = 0.002 cluster\_2

/home/global/Anaconda3-2023.09/lib/python3.11/site-packages/seaborn/\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is deprecated and will be removed in a future version. Convert inf values to NaN before operating instead.

with pd.option\_context('mode.use\_inf\_as\_na', True):
/home/global/Anaconda3-2023.09/lib/python3.11/site-

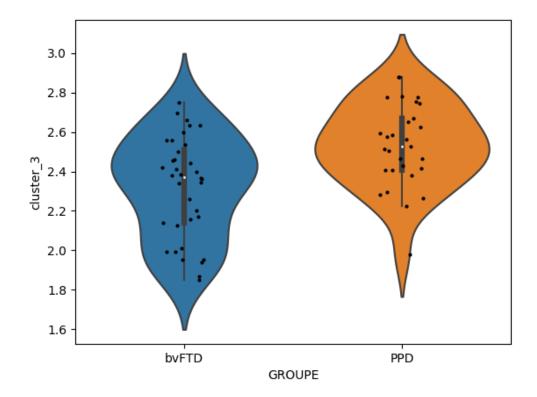
packages/seaborn/\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is deprecated and will be removed in a future version. Convert inf values to NaN before operating instead.



T-Test (oneside): -3.371 and p\_value = 0.001 cluster\_3

/home/global/Anaconda3-2023.09/lib/python3.11/site-packages/seaborn/\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is deprecated and will be removed in a future version. Convert inf values to NaN before operating instead.

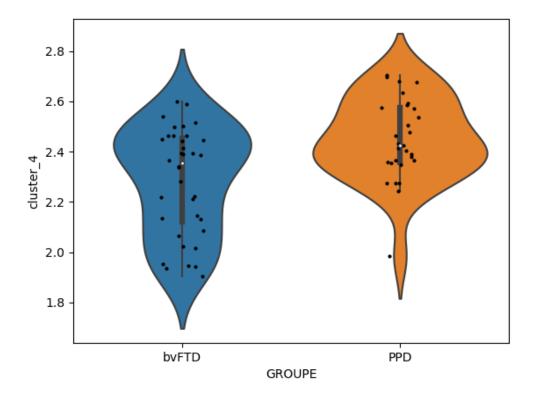
with pd.option\_context('mode.use\_inf\_as\_na', True):
/home/global/Anaconda3-2023.09/lib/python3.11/sitepackages/seaborn/\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is
deprecated and will be removed in a future version. Convert inf values to NaN



with pd.option\_context('mode.use\_inf\_as\_na', True):
/home/global/Anaconda3-2023.09/lib/python3.11/sitepackages/seaborn/\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is
deprecated and will be removed in a future version. Convert inf values to NaN
before operating instead.

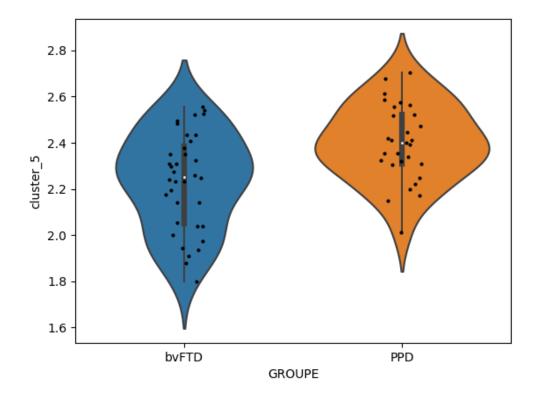
with pd.option\_context('mode.use\_inf\_as\_na', True):

T-Test (oneside) : -3.661 and p\_value = 0.001
cluster\_4



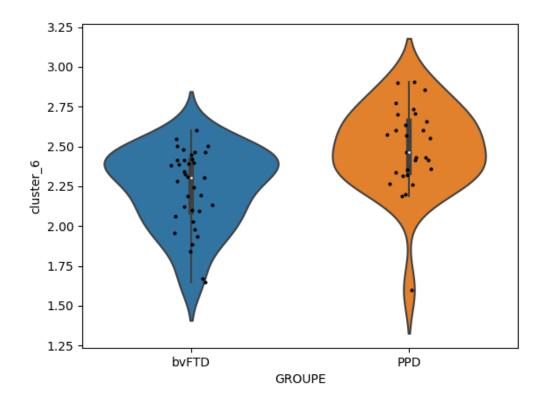
T-Test (oneside): -3.511 and p\_value = 0.001 cluster\_5

with pd.option\_context('mode.use\_inf\_as\_na', True):
/home/global/Anaconda3-2023.09/lib/python3.11/sitepackages/seaborn/\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is
deprecated and will be removed in a future version. Convert inf values to NaN
before operating instead.



T-Test (oneside): -3.555 and p\_value = 0.001 cluster\_6

with pd.option\_context('mode.use\_inf\_as\_na', True):
/home/global/Anaconda3-2023.09/lib/python3.11/sitepackages/seaborn/\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is
deprecated and will be removed in a future version. Convert inf values to NaN
before operating instead.



T-Test (oneside) : -3.900 and  $p_value = 0.000$ 

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## SOUS\_GROUPE

## \*\*\*\*\*\*\*\*\*

Group comparison between bvFTD and BPD

First Fitting the model

Second Fitting the model

Group comparison between  ${\tt bvFTD}$  and  ${\tt ADS}$ 

First Fitting the model

Second Fitting the model



#### \*\*\*\*

#### clusters infos :

#### \*\*\*\*

```
clusid nverts resels

1 145.0 4.327059 0.001378

1 2 115.0 4.189553 0.001724

2 3 94.0 3.259697 0.008533
```

#### \*\*\*\*

## peaks infos :

#### \*\*\*\*

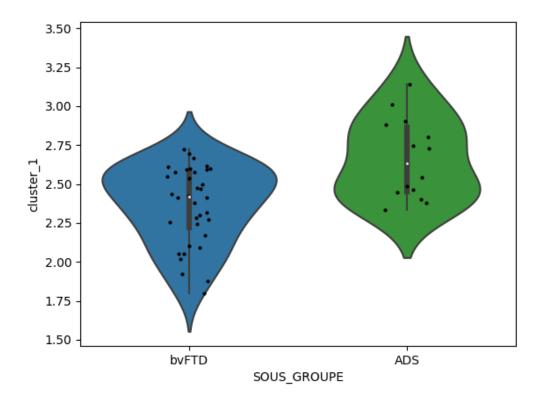
		t	clusid	vertid		P
3	4.174108		2	254	0.300246	
4	4.141070		1	2259	0.328940	
5	4.050628		3	19297	0.420942	
7	3.972772		1	5423	0.519313	
9	3.908226		2	7586	0.616780	
11	3.816461		3	16179	0.785164	
31	3.430772		1	531	2.068953	
32	3.419712		2	6564	2.124028	
52	3.177301		1	2262	3.742020	
53	3.173262		3	14325	3.775591	
61	3.097755		1	6730	4.468491	
65	3.077318		1	4973	4.677341	
101	2.805454		2	4092	8.292293	
147	2.513157		1	2186	14.453601	
154	2.489571		1	6638	15.070799	
cl	uster_1					

/home/global/Anaconda3-2023.09/lib/python3.11/site-

packages/seaborn/\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is deprecated and will be removed in a future version. Convert inf values to NaN before operating instead.

with pd.option\_context('mode.use\_inf\_as\_na', True):
/home/global/Anaconda3-2023.09/lib/python3.11/sitepackages/seaborn/\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is

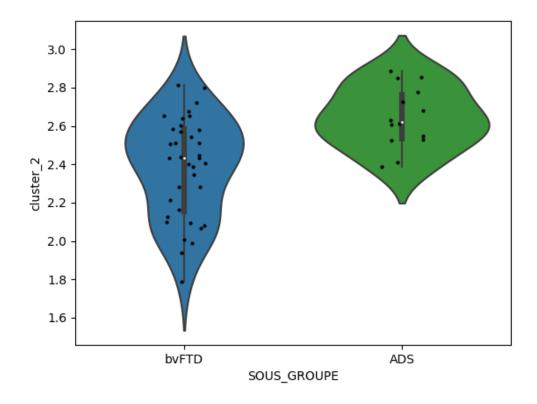
packages/seaborn/\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is deprecated and will be removed in a future version. Convert inf values to NaN before operating instead.



T-Test (oneside) : -3.666 and p\_value = 0.001
 cluster\_2

with pd.option\_context('mode.use\_inf\_as\_na', True):
/home/global/Anaconda3-2023.09/lib/python3.11/site-

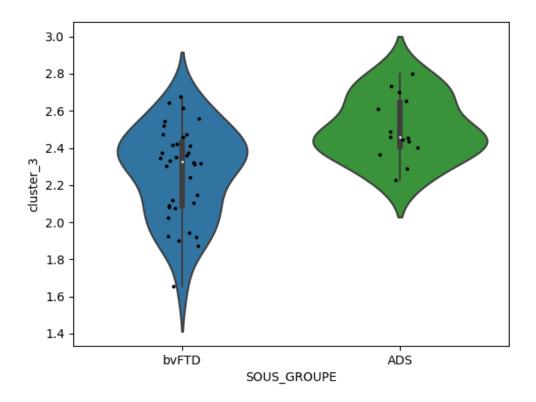
packages/seaborn/\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is deprecated and will be removed in a future version. Convert inf values to NaN before operating instead.



T-Test (oneside): -4.284 and p\_value = 0.000 cluster\_3

/home/global/Anaconda3-2023.09/lib/python3.11/site-packages/seaborn/\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is deprecated and will be removed in a future version. Convert inf values to NaN before operating instead.

with pd.option\_context('mode.use\_inf\_as\_na', True):
/home/global/Anaconda3-2023.09/lib/python3.11/sitepackages/seaborn/\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is
deprecated and will be removed in a future version. Convert inf values to NaN



T-Test (oneside): -3.840 and p\_value = 0.001 Group comparison between BPD and ADS First Fitting the model Second Fitting the model

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## GROUPE

\*\*\*\*\*\*\*\*\*



```
****
```

## clusters infos :

\*\*\*\*

	${\tt clusid}$	nvert	s resel	S	P
0	1	441.0	14.534073	0.000003	
1	2	376.0	11.617540	0.000003	
2	3	261.0	8.417559	0.000005	
3	4	246.0	6.607148	0.000028	
4	5	179.0	4.508337	0.000715	
5	6	156.0	3.484860	0.004491	

## \*\*\*\*

### peaks infos :

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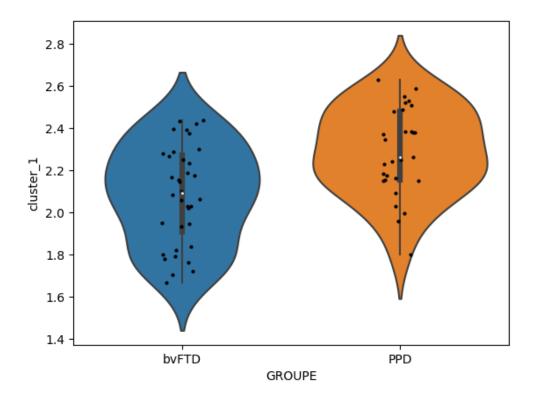
		t	clusid	vertic	d	P
0	4.441478		4	5013	0.103924	
1	4.420694		4	9108	0.110743	
2	4.326418		3	16434	0.147220	
3	4.310466		5	20481	0.154737	
4	4.245047		1	7585	0.187915	
	•••				•••	
131	2.624337		2	18894	11.002611	
132	2.615344		2	18920	11.199574	
134	2.600952		6	20153	11.514774	
135	2.599834		3	10299	11.539261	
146	2.524179		2	18307	13.311445	

[70 rows x 4 columns]

### cluster\_1

/home/global/Anaconda3-2023.09/lib/python3.11/site-packages/seaborn/\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is deprecated and will be removed in a future version. Convert inf values to NaN before operating instead.

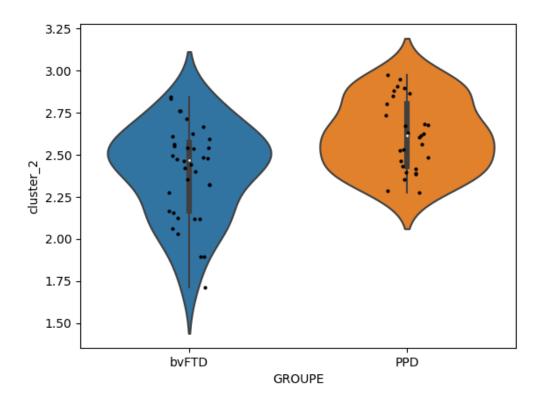
with pd.option\_context('mode.use\_inf\_as\_na', True):
/home/global/Anaconda3-2023.09/lib/python3.11/sitepackages/seaborn/\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is
deprecated and will be removed in a future version. Convert inf values to NaN
before operating instead.



T-Test (oneside): -3.762 and p\_value = 0.000 cluster\_2

/home/global/Anaconda3-2023.09/lib/python3.11/site-packages/seaborn/\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is deprecated and will be removed in a future version. Convert inf values to NaN before operating instead.

with pd.option\_context('mode.use\_inf\_as\_na', True):
/home/global/Anaconda3-2023.09/lib/python3.11/sitepackages/seaborn/\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is
deprecated and will be removed in a future version. Convert inf values to NaN

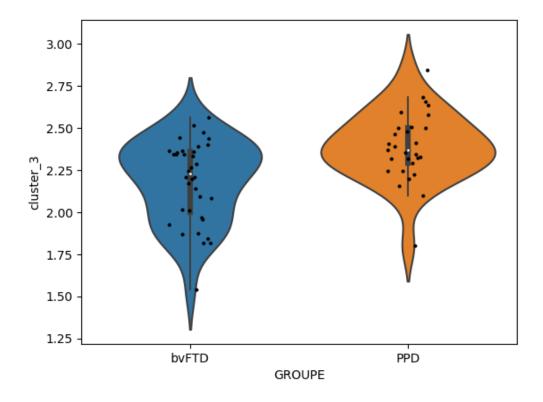


T-Test (oneside) : -3.594 and p\_value = 0.001

with pd.option\_context('mode.use\_inf\_as\_na', True):
/home/global/Anaconda3-2023.09/lib/python3.11/sitepackages/seaborn/\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is
deprecated and will be removed in a future version. Convert inf values to NaN
before operating instead.

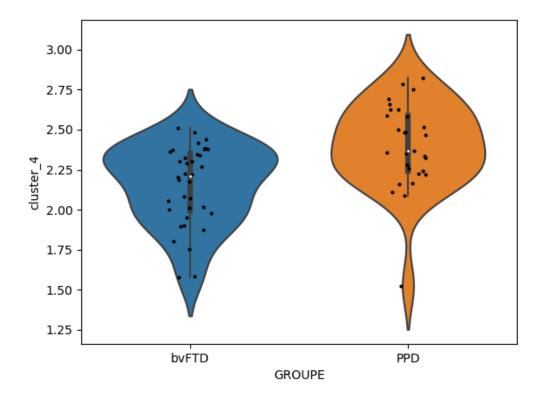
with pd.option\_context('mode.use\_inf\_as\_na', True):

cluster\_3



T-Test (oneside): -3.697 and p\_value = 0.000 cluster\_4

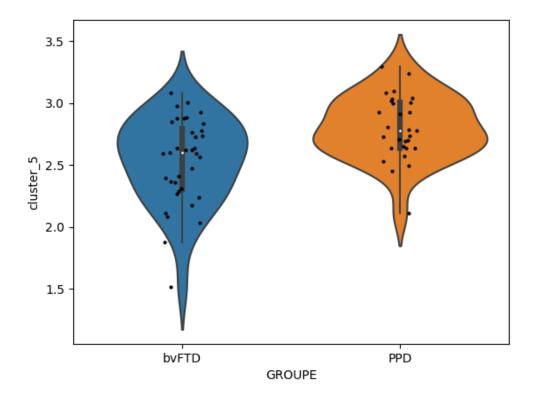
with pd.option\_context('mode.use\_inf\_as\_na', True):
/home/global/Anaconda3-2023.09/lib/python3.11/sitepackages/seaborn/\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is
deprecated and will be removed in a future version. Convert inf values to NaN
before operating instead.



T-Test (oneside): -3.840 and p\_value = 0.000 cluster\_5

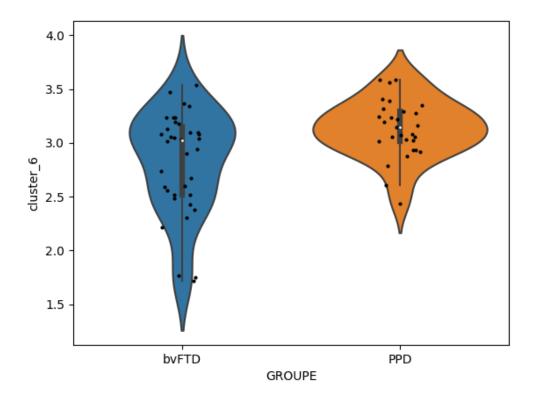
/home/global/Anaconda3-2023.09/lib/python3.11/site-packages/seaborn/\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is deprecated and will be removed in a future version. Convert inf values to NaN before operating instead.

with pd.option\_context('mode.use\_inf\_as\_na', True):
/home/global/Anaconda3-2023.09/lib/python3.11/sitepackages/seaborn/\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is
deprecated and will be removed in a future version. Convert inf values to NaN



T-Test (oneside): -3.589 and p\_value = 0.001 cluster\_6

with pd.option\_context('mode.use\_inf\_as\_na', True):
/home/global/Anaconda3-2023.09/lib/python3.11/sitepackages/seaborn/\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is
deprecated and will be removed in a future version. Convert inf values to NaN
before operating instead.



T-Test (oneside): -3.319 and p\_value = 0.002

## SOUS\_GROUPE

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## \*\*\*\*

## clusters infos :

#### \*\*\*\*

clusid nverts resels I
0 1 252.0 7.657735 0.000019
1 2 192.0 6.079295 0.000124

```
2 3 179.0 6.013677 0.000135
3 4 132.0 5.258866 0.000383
4 5 128.0 4.379592 0.001435
5 6 114.0 3.688879 0.004418
```

\*\*\*\*

## peaks infos :

\*\*\*\*

		t	clusid	vertid		Р
0	4.800303		5	14521	0.057082	
2	4.655421		1	2259	0.086695	
4	4.572197		5	10666	0.109854	
5	4.425511		1	5015	0.166091	
7	4.313734		2	2660	0.226426	
8	4.243347		1	3848	0.274296	
9	4.242309		1	6751	0.275116	
10	4.170349		4	6625	0.334802	
11	4.132644		3	19475	0.370721	
14	3.969308		2	7269	0.572228	
15	3.969046		4	7585	0.572611	
16	3.948966		2	7268	0.603665	
17	3.928637		2	1867	0.636468	
18	3.903838		1	5423	0.679202	
22	3.773712		6	19367	0.948741	
24	3.753119		6	12441	0.999663	
28	3.616664		1	1180	1.405788	
32	3.586961		3	11155	1.512940	
36	3.568591		3	19430	1.581598	
38	3.553923		3	14408	1.640274	
40	3.519550		2	4771	1.782940	
42	3.502385		1	4855	1.857574	
45	3.481824		5	18695	1.952575	
50	3.418280		5	16293	2.270620	
55	3.368771		4	4782	2.552313	
56	3.351386		2	4079	2.656371	
60	3.323841		4	4789	2.833163	
61	3.285127		6	15066	3.097040	
68	3.240256		5	18121	3.428649	
70	3.171788		3	12131	3.999453	
73	3.159749		1	9118	4.108995	
97	2.932292		3	12455	6.695350	
102	2.895253		2	1617	7.225564	
108	2.863573		4	884	7.707914	
114	2.814567		6	13891	8.505668	
117	2.797770		4	9071	8.794474	
137	2.684727		3	13662	10.949431	
148	2.611901		6	19383	12.549908	

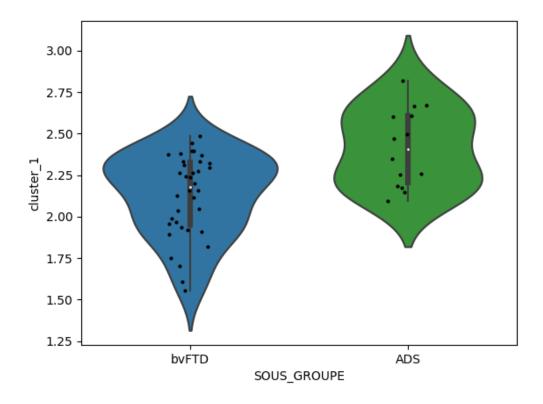
```
149 2.604965 1 1331 12.711213
160 2.529752 5 11967 14.560518
171 2.474699 6 19379 16.043049
cluster_1
```

with pd.option\_context('mode.use\_inf\_as\_na', True):

/home/global/Anaconda3-2023.09/lib/python3.11/site-

packages/seaborn/\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is deprecated and will be removed in a future version. Convert inf values to NaN before operating instead.

with pd.option\_context('mode.use\_inf\_as\_na', True):



T-Test (oneside): -3.840 and p\_value = 0.001 cluster\_2

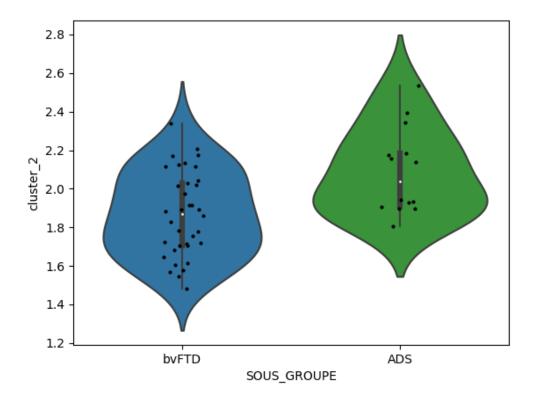
/home/global/Anaconda3-2023.09/lib/python3.11/sitepackages/seaborn/\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is deprecated and will be removed in a future version. Convert inf values to NaN

with pd.option\_context('mode.use\_inf\_as\_na', True):

/home/global/Anaconda3-2023.09/lib/python3.11/site-

packages/seaborn/\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is deprecated and will be removed in a future version. Convert inf values to NaN before operating instead.

with pd.option\_context('mode.use\_inf\_as\_na', True):



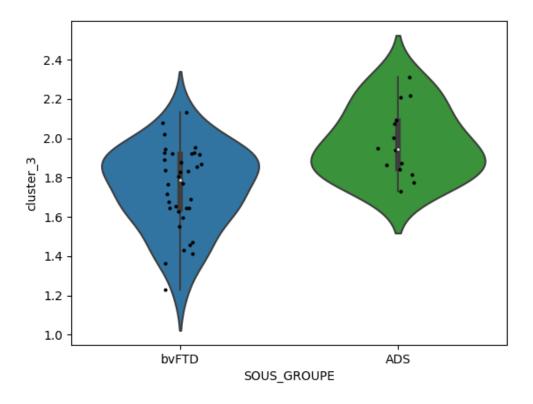
T-Test (oneside) : -3.155 and p\_value = 0.004
cluster\_3

/home/global/Anaconda3-2023.09/lib/python3.11/site-packages/seaborn/\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is deprecated and will be removed in a future version. Convert inf values to NaN before operating instead.

with pd.option\_context('mode.use\_inf\_as\_na', True):

/home/global/Anaconda3-2023.09/lib/python3.11/site-

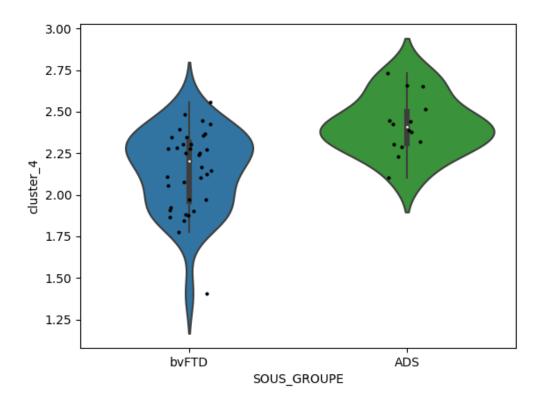
packages/seaborn/\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is deprecated and will be removed in a future version. Convert inf values to NaN before operating instead.



T-Test (oneside): -3.890 and p\_value = 0.001 cluster\_4

/home/global/Anaconda3-2023.09/lib/python3.11/site-packages/seaborn/\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is deprecated and will be removed in a future version. Convert inf values to NaN before operating instead.

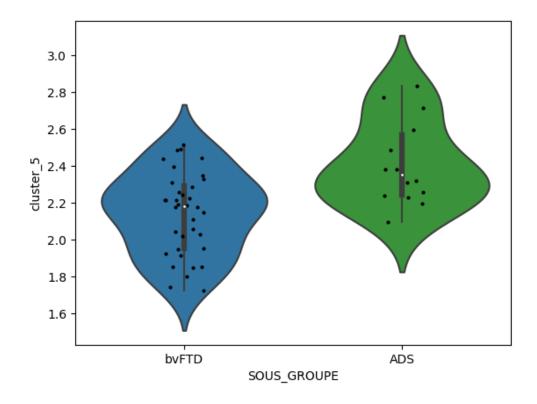
with pd.option\_context('mode.use\_inf\_as\_na', True):
/home/global/Anaconda3-2023.09/lib/python3.11/sitepackages/seaborn/\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is
deprecated and will be removed in a future version. Convert inf values to NaN



T-Test (oneside): -4.416 and p\_value = 0.000 cluster\_5

with pd.option\_context('mode.use\_inf\_as\_na', True):
/home/global/Anaconda3-2023.09/lib/python3.11/sitepackages/seaborn/\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is

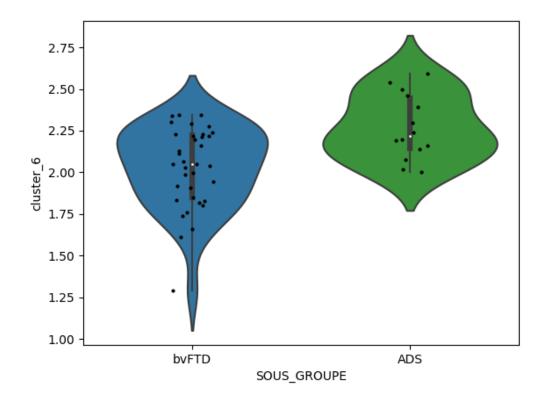
packages/seaborn/\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is deprecated and will be removed in a future version. Convert inf values to NaN before operating instead.



T-Test (oneside): -3.809 and p\_value = 0.001 cluster\_6

with pd.option\_context('mode.use\_inf\_as\_na', True):
/home/global/Anaconda3-2023.09/lib/python3.11/sitepackages/seaborn/\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is

packages/seaborn/\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is deprecated and will be removed in a future version. Convert inf values to NaN before operating instead.



```
T-Test (oneside): -3.707 and p_value = 0.001

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```
Click <a href='https://aka.ms/vscodeJupyterKernelCrash'>here</a> for more info.
 View Jupyter <a href='command:jupyter.viewOutput'>log</a> for further details.
[NbConvertApp] Converting notebook DFTvc_MB_etude1.ipynb to pdf
/home/global/Anaconda3-2023.09/lib/python3.11/site-
packages/nbconvert/filters/datatypefilter.py:41: UserWarning: Your element with
mimetype(s) dict_keys(['application/javascript',
'application/vnd.holoviews_load.v0+json']) is not able to be represented.
  warn(
/home/global/Anaconda3-2023.09/lib/python3.11/site-
packages/nbconvert/filters/datatypefilter.py:41: UserWarning: Your element with
mimetype(s) dict_keys(['text/html']) is not able to be represented.
  warn(
/home/global/Anaconda3-2023.09/lib/python3.11/site-
packages/nbconvert/filters/datatypefilter.py:41: UserWarning: Your element with
mimetype(s) dict_keys(['application/vnd.holoviews_exec.v0+json', 'text/html'])
is not able to be represented.
 warn(
[NbConvertApp] Support files will be in DFTvc MB etude1 files/
[NbConvertApp] Making directory ./DFTvc_MB_etude1_files
[NbConvertApp] Making directory ./DFTvc MB etude1 files
[NbConvertApp] Making directory ./DFTvc_MB_etude1_files
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