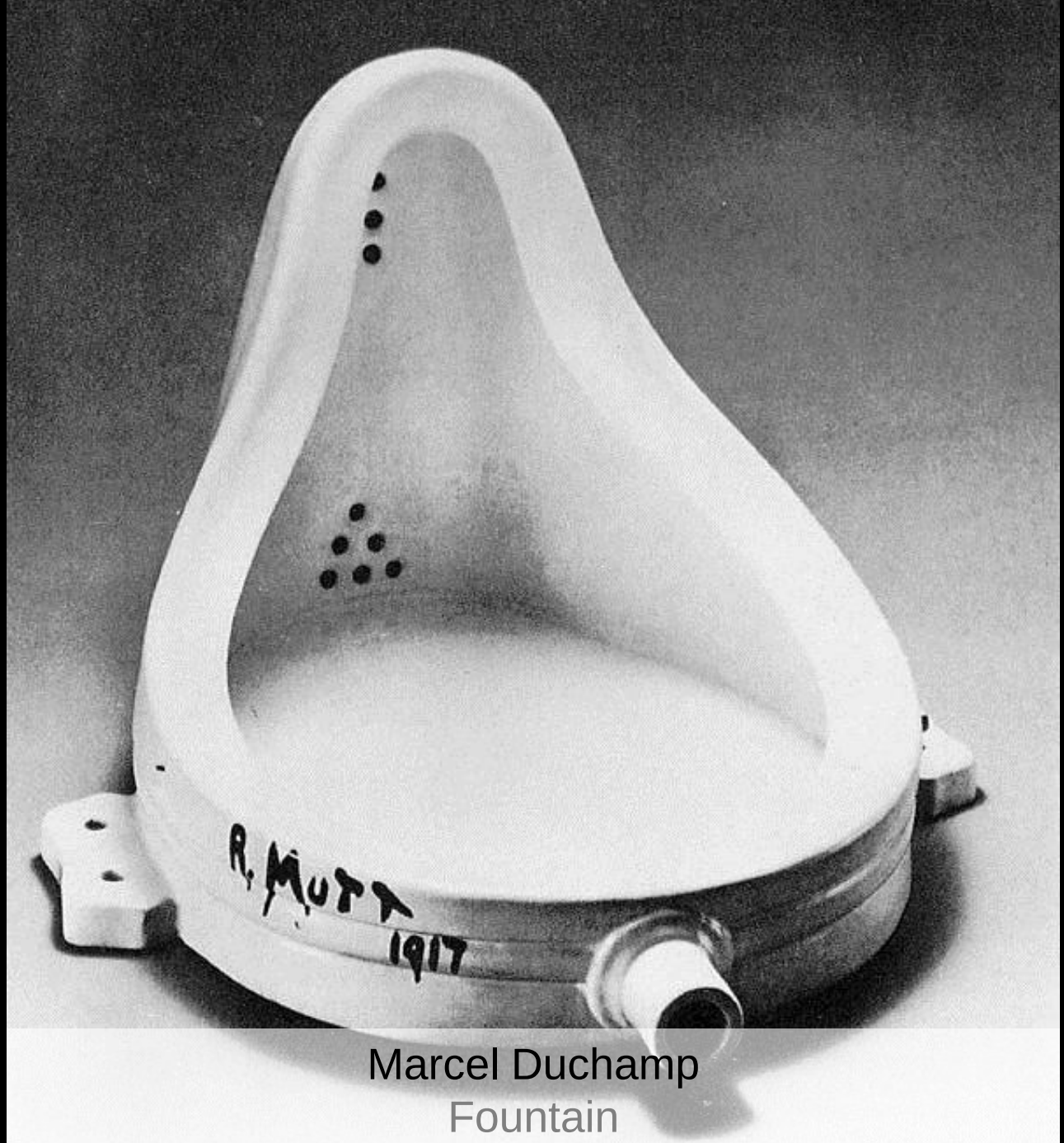
"Beauty is, for the greater part, some quality in bodies acting mechanically upon the human mind by the intervention of the senses"

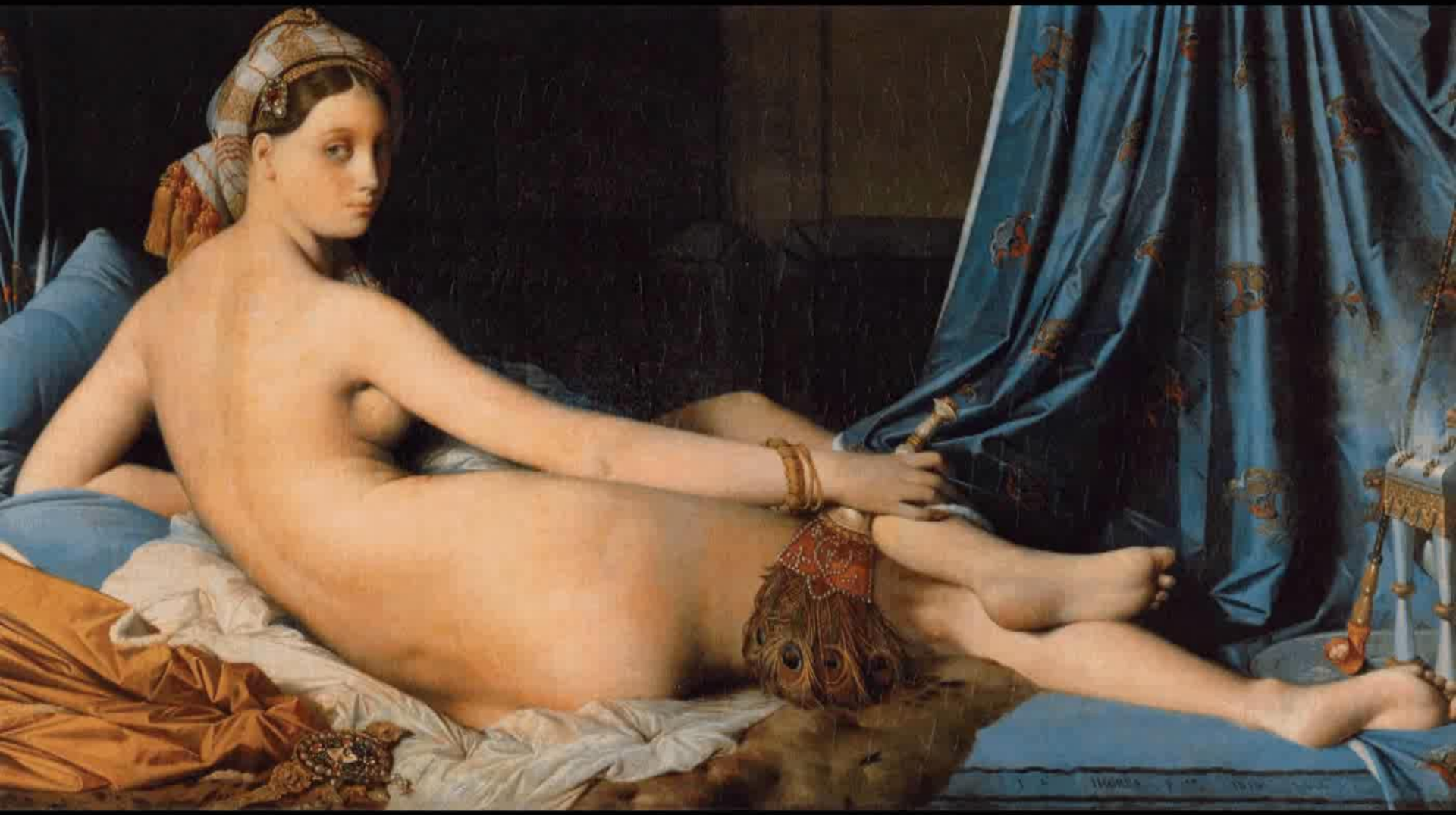
Edmund Burke, 1757

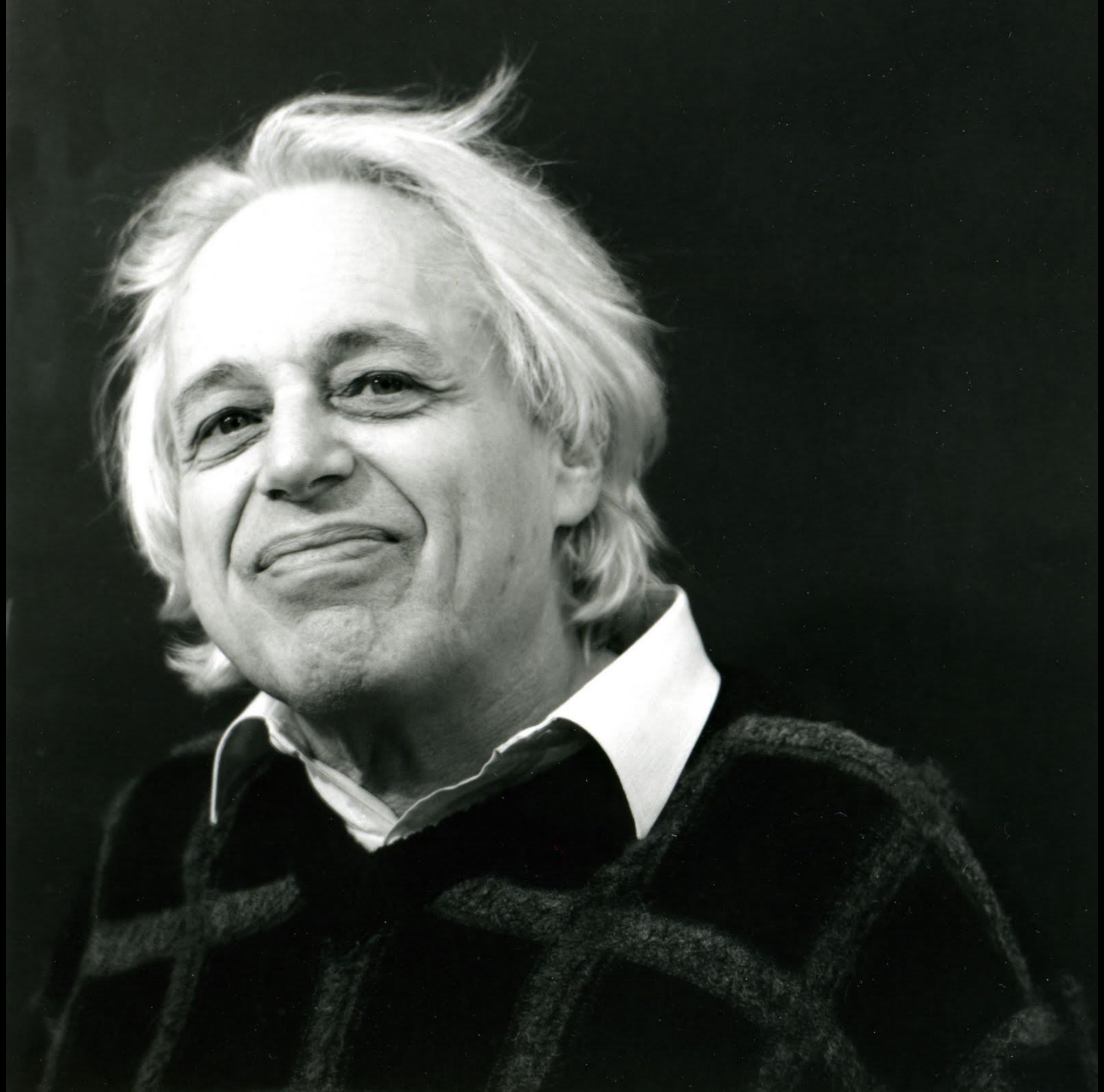


Marcel Duchamp

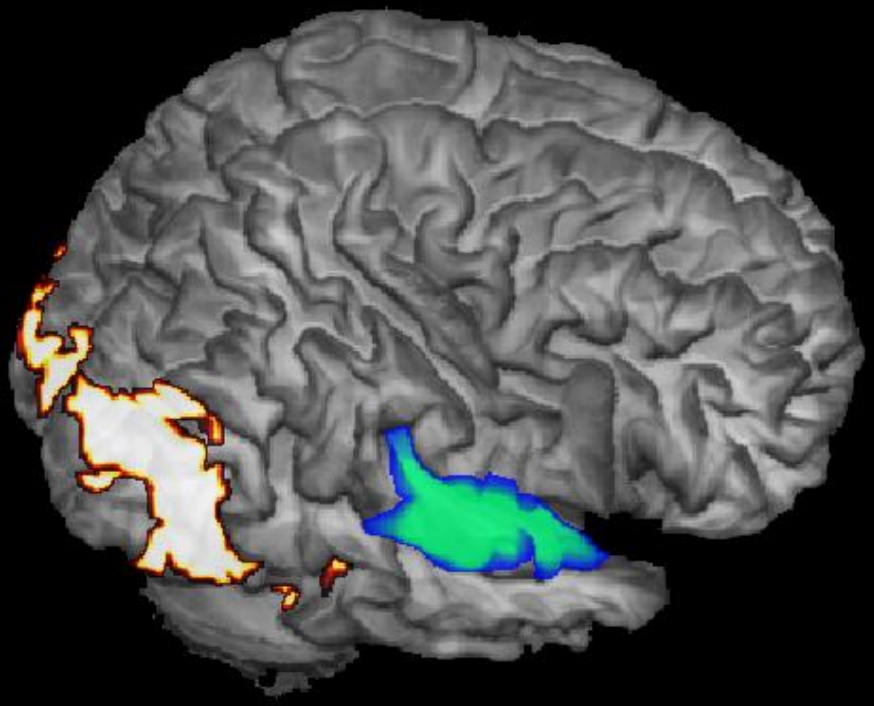
Fountain

1917

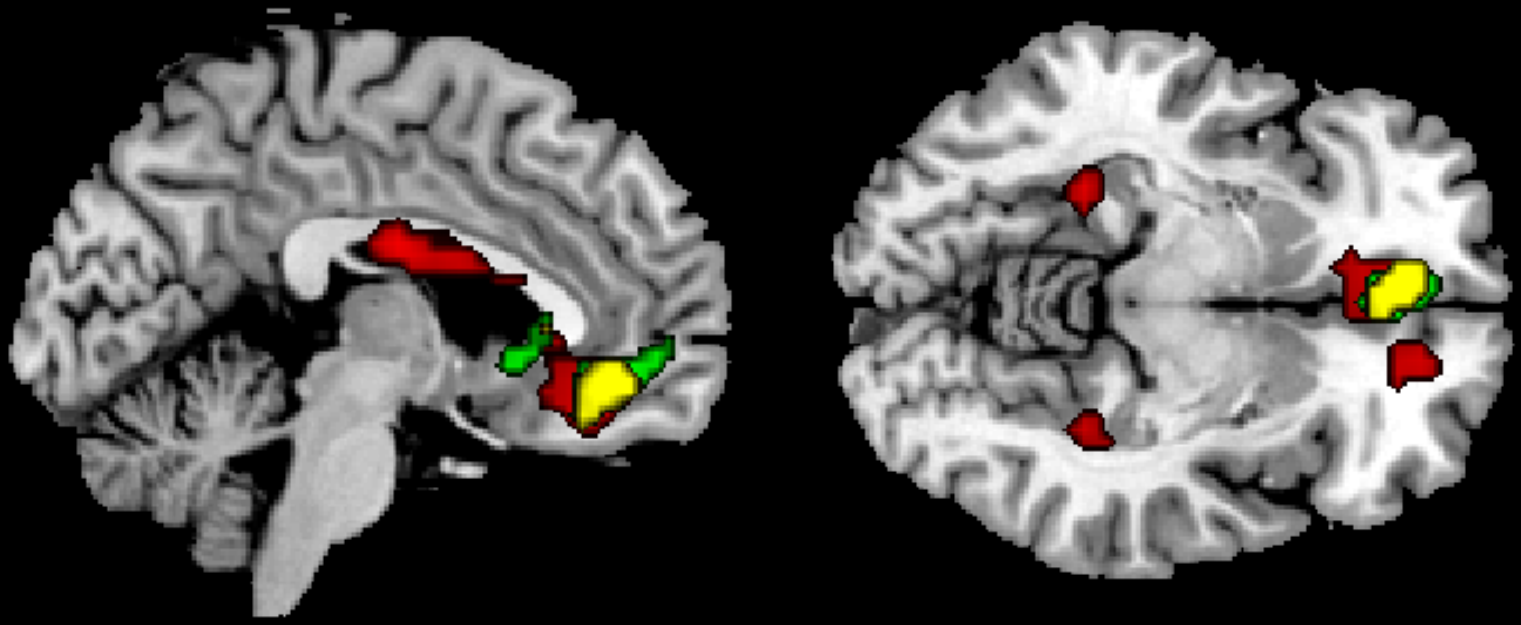




Visual beauty vs. auditory beauty

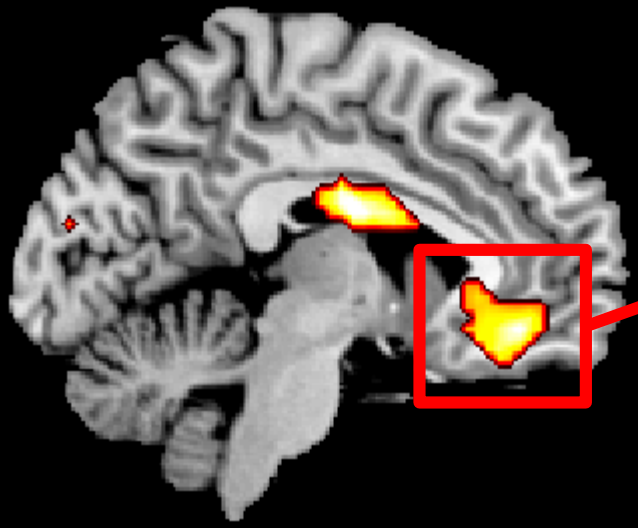


Common region

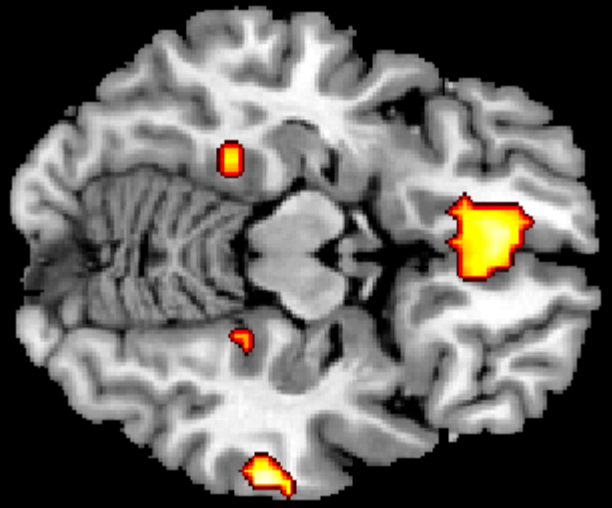


VISUAL MUSICAL CONJUNCTION

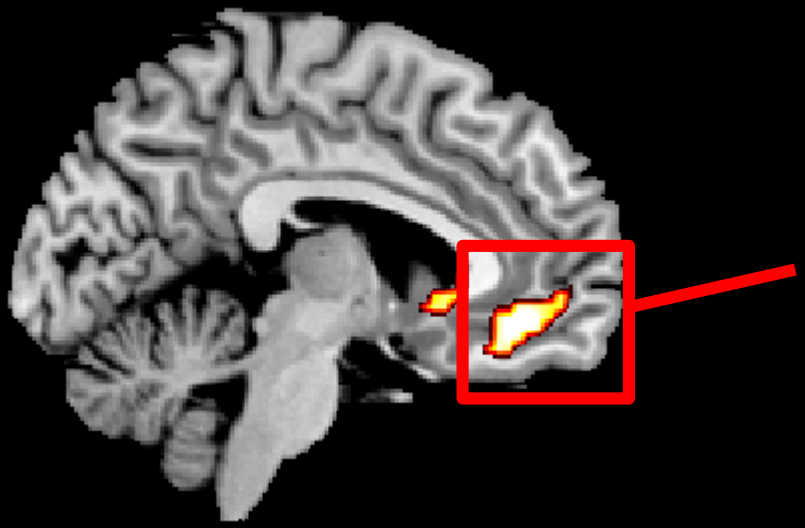
Visually Beautiful



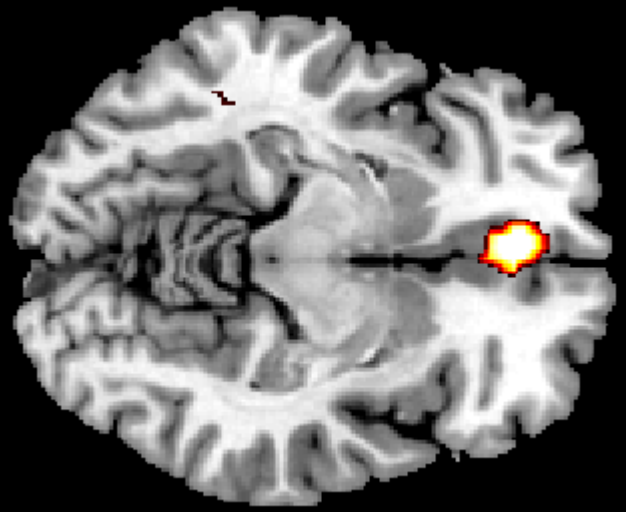
medial orbito-frontal cortex (mOFC)



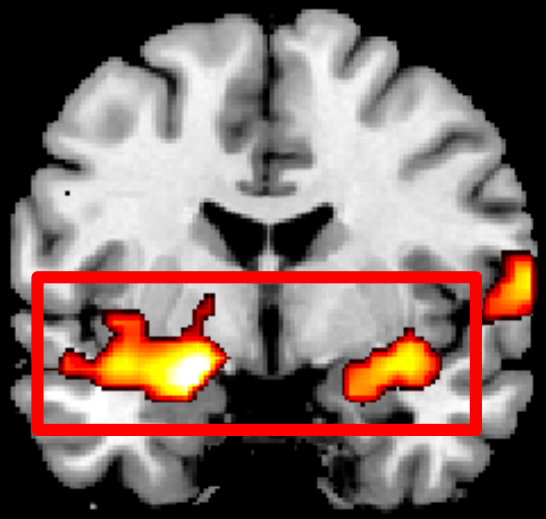
Musically Beautiful



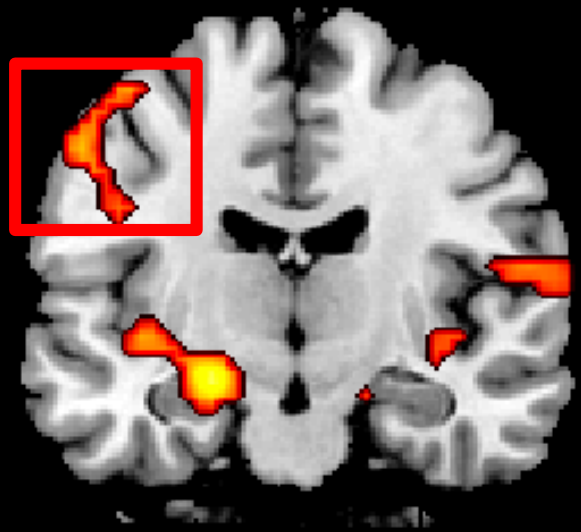
medial OFC



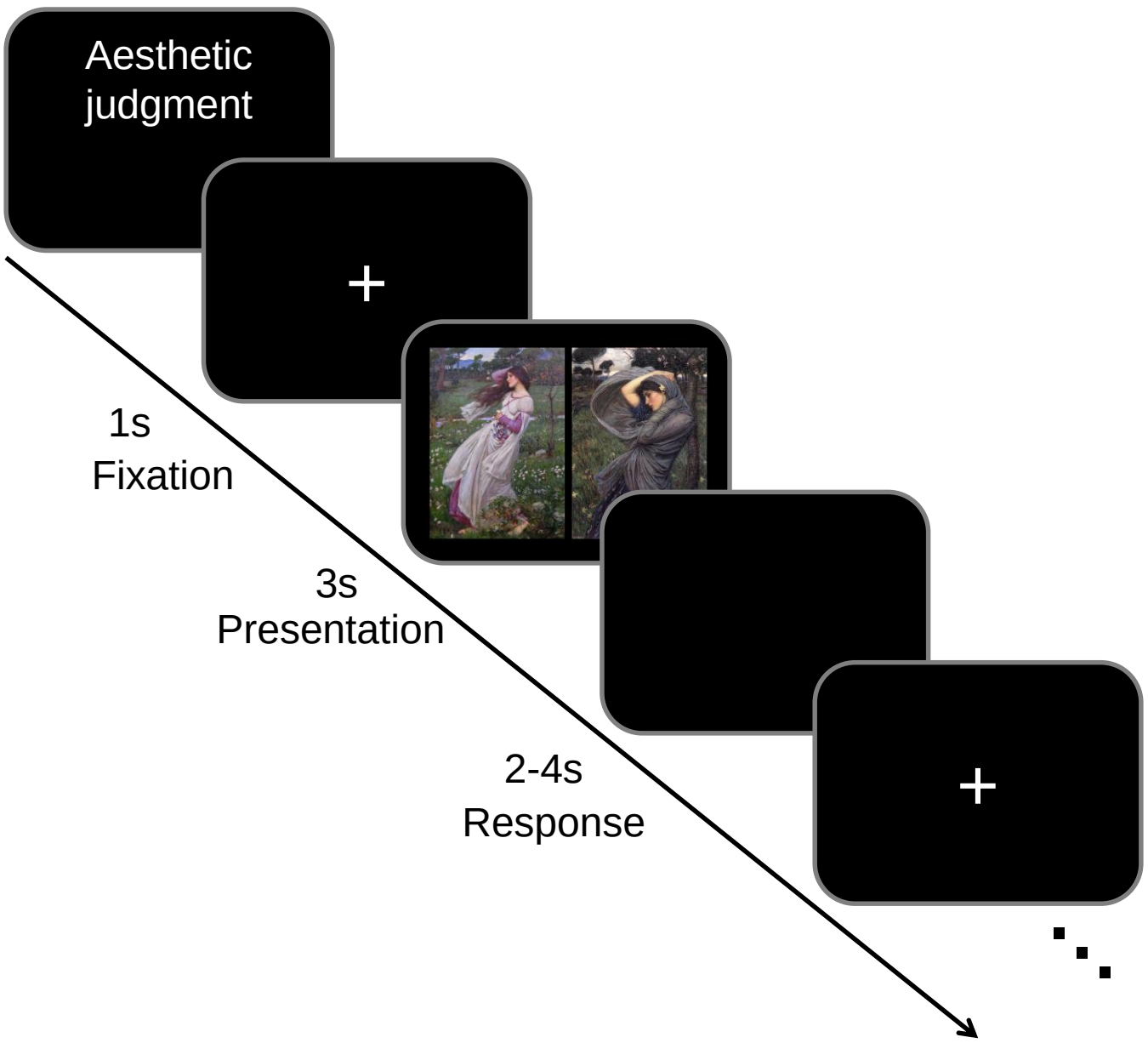
Visually Ugly > Beautiful

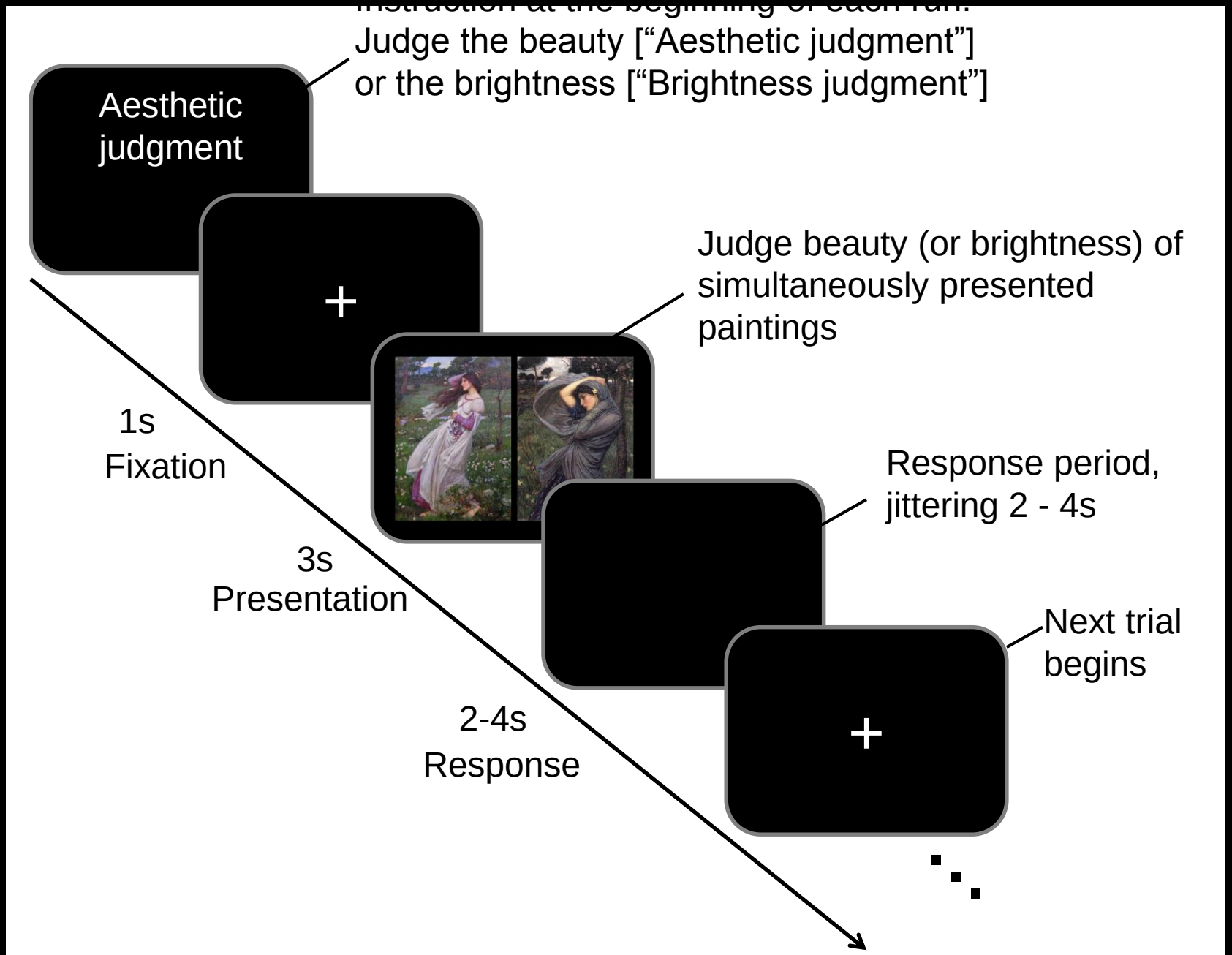


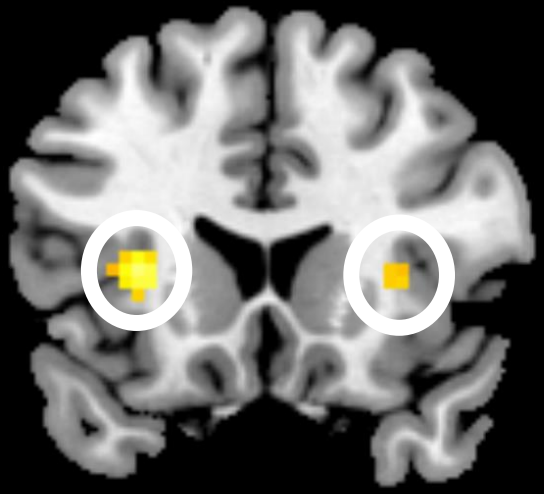
Amygdala



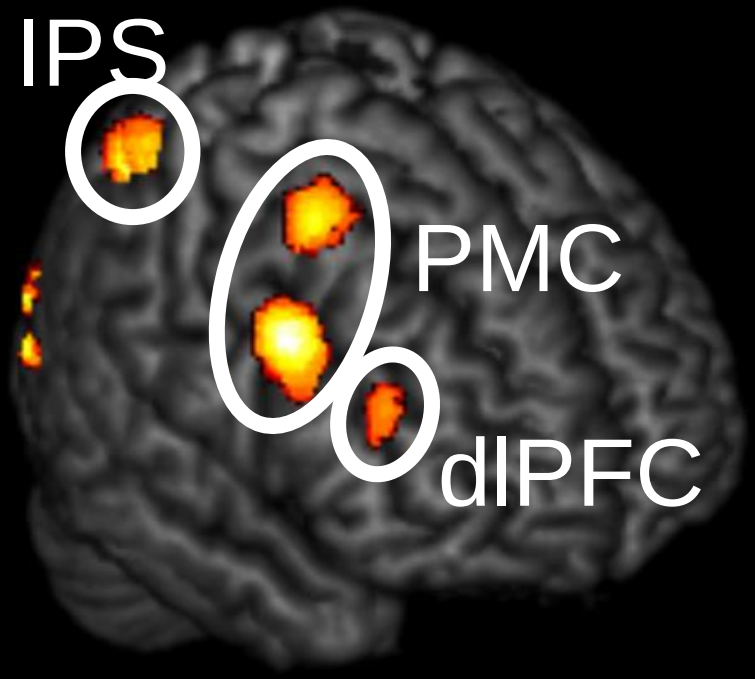
Motor cortex

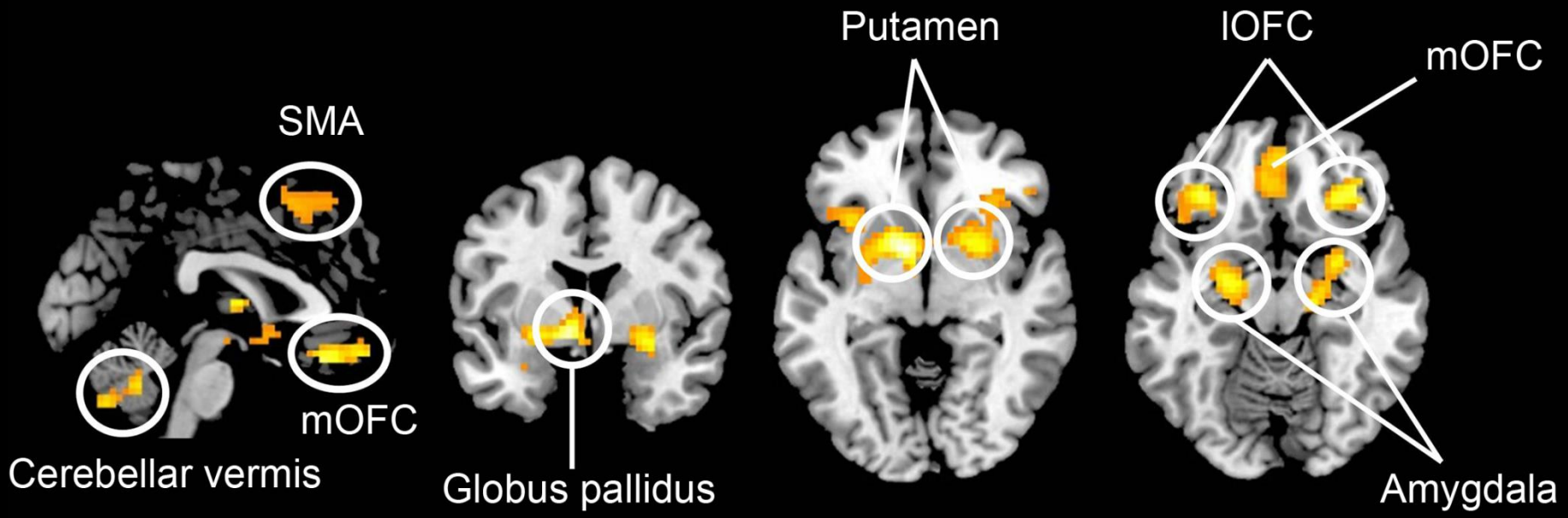

Aesthetic judgment
+
1s
Fixation
3s
Presentation
2-4s
Response
+

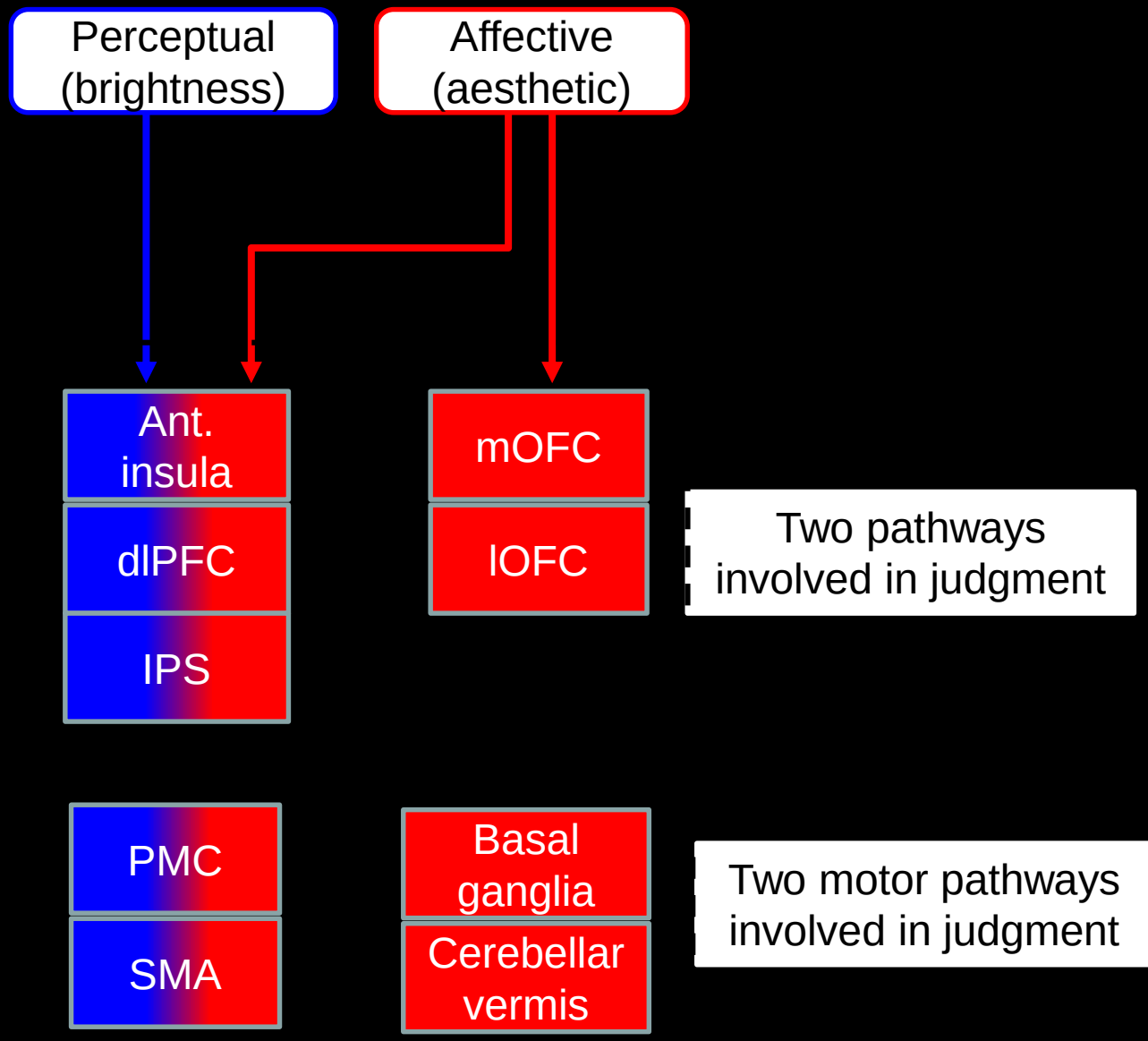

Judge the beauty [“Aesthetic judgment”]
or the brightness [“Brightness judgment”]
Aesthetic judgment
+
Judge beauty (or brightness) of simultaneously presented paintings
1s
Fixation
3s
Presentation
Response period, jittering 2 - 4s
2-4s
Response
Next trial begins
+

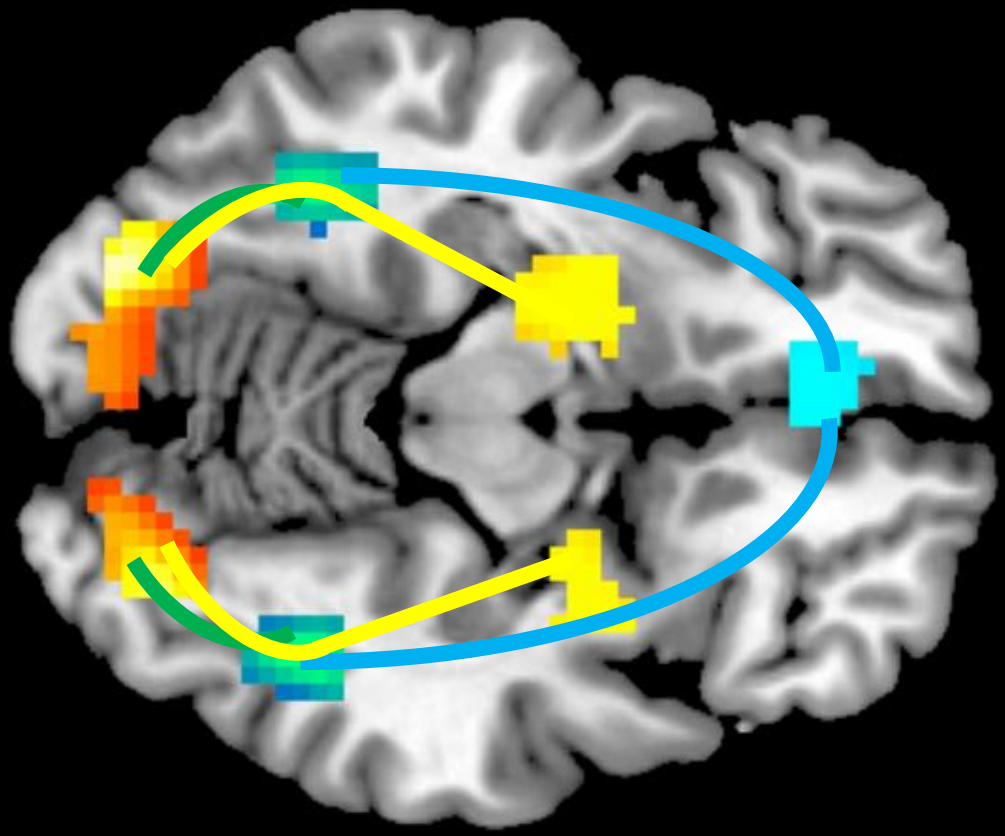


Ant. insula




SMA
mOFC
Cerebellar vermis
Globus pallidus
Putamen
lOFC
mOFC
Amygdala


Perceptual (brightness)
Affective (aesthetic)
Ant. insula
dlPFC
IPS
mOFC
lOFC
Two pathways involved in judgment
PMC
SMA
Basal ganglia
Cerebellar vermis
Two motor pathways involved in judgment

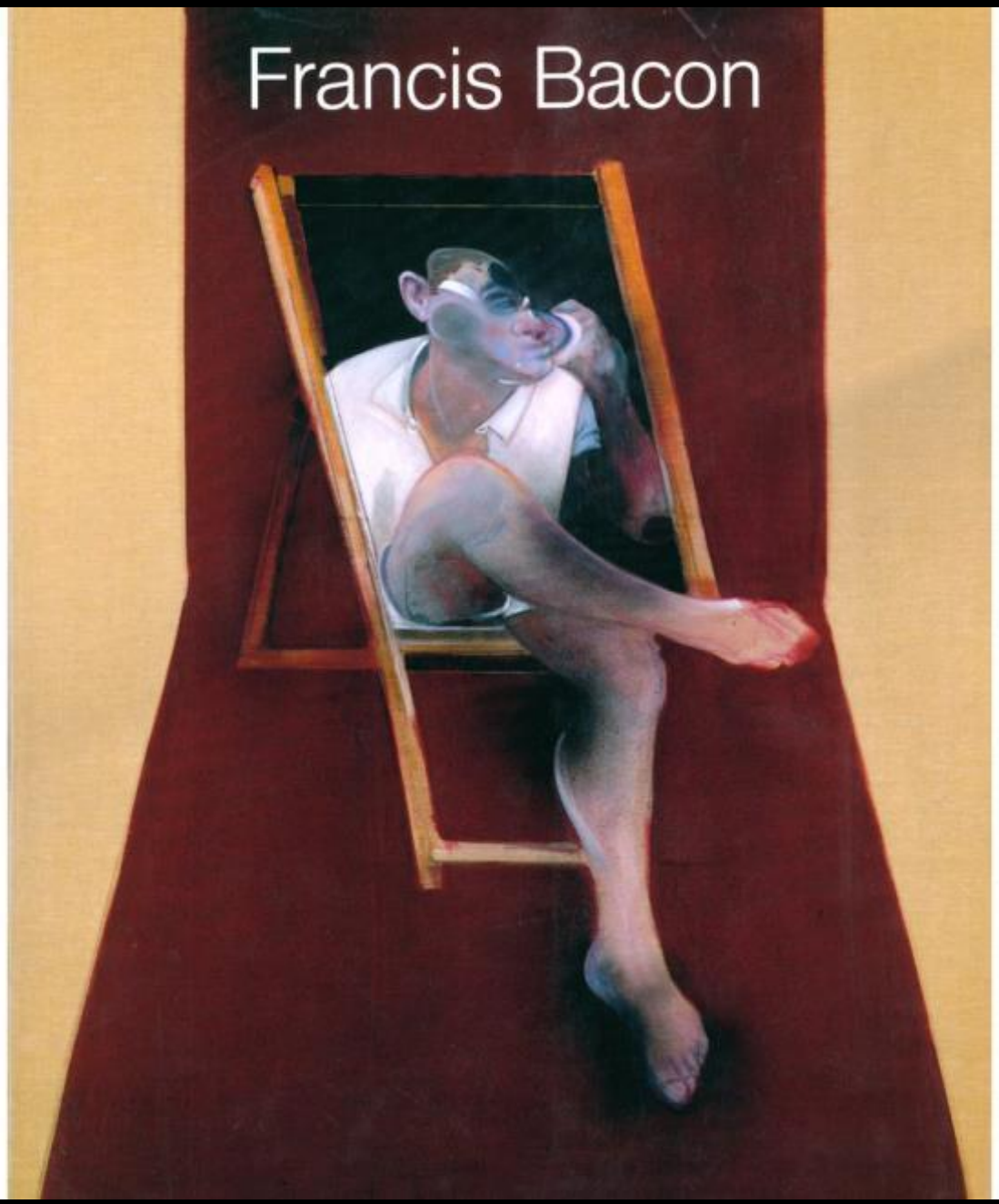


"Beauty is, for the greater part, some quality in bodies acting mechanically upon the human mind by the intervention of the senses"

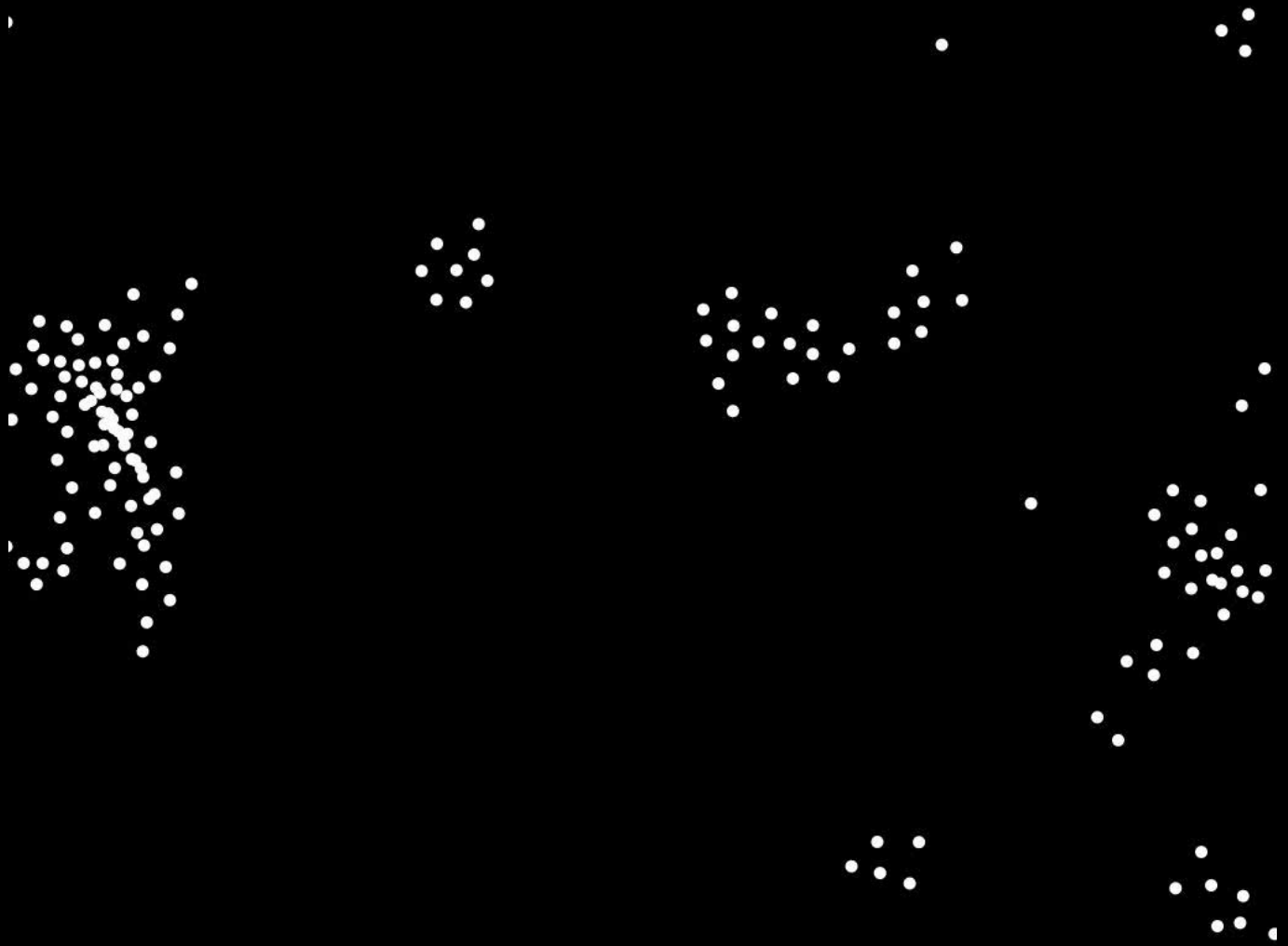
Edmund Burke, 1757


Fotos.org

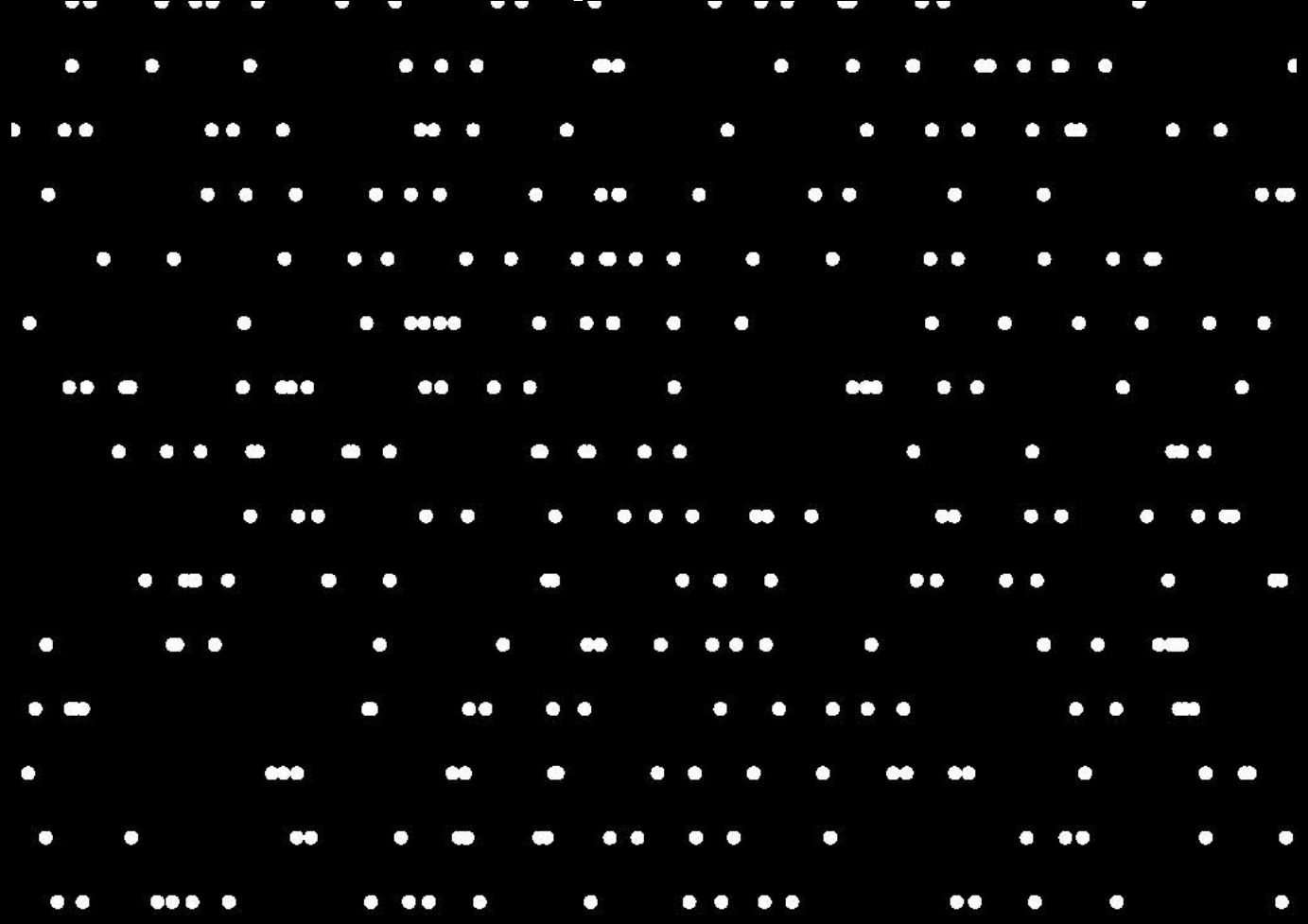
Francis Bacon



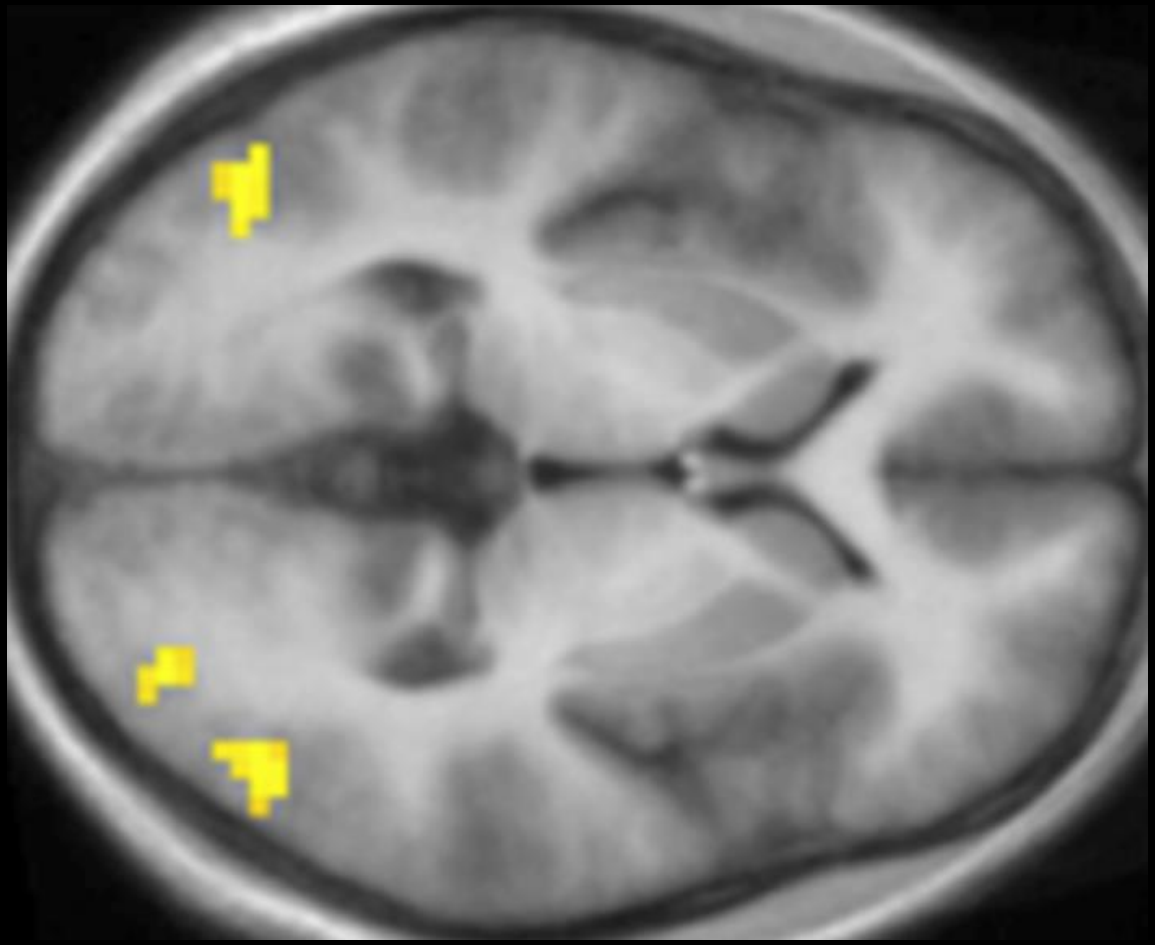
Preferred stimuli



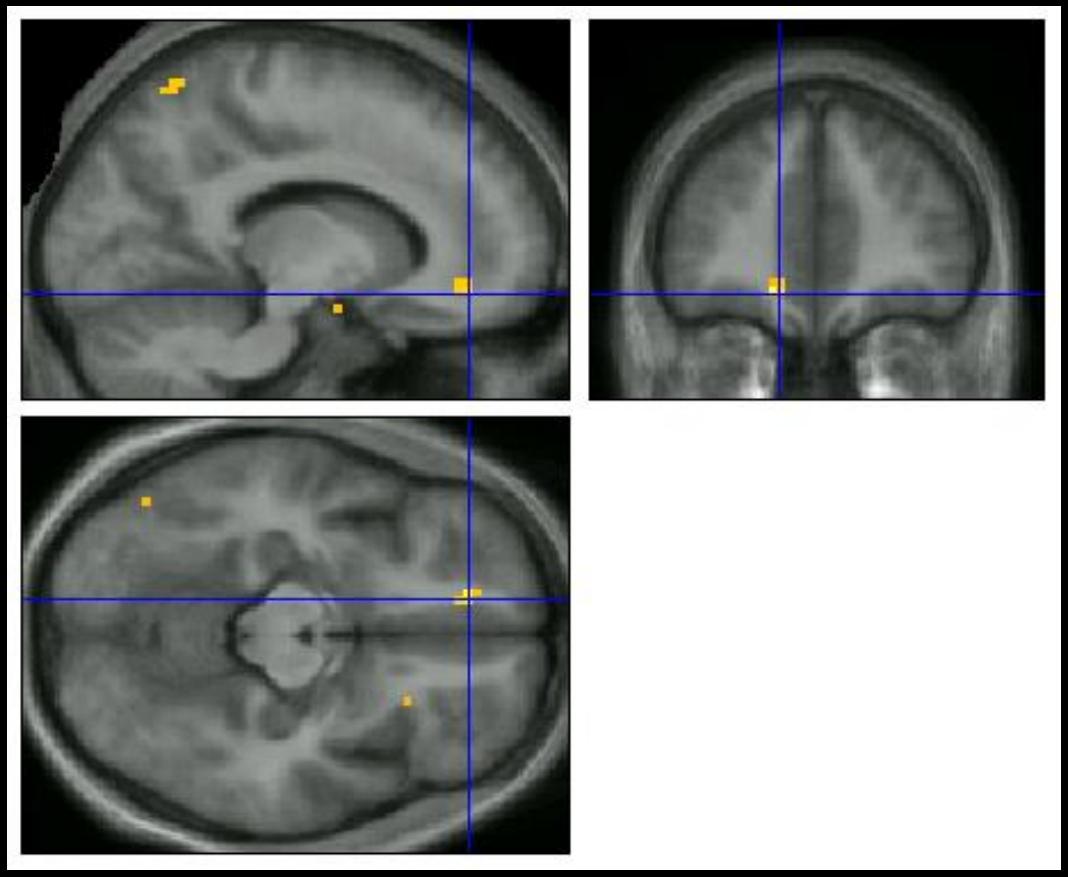
Non-preferred

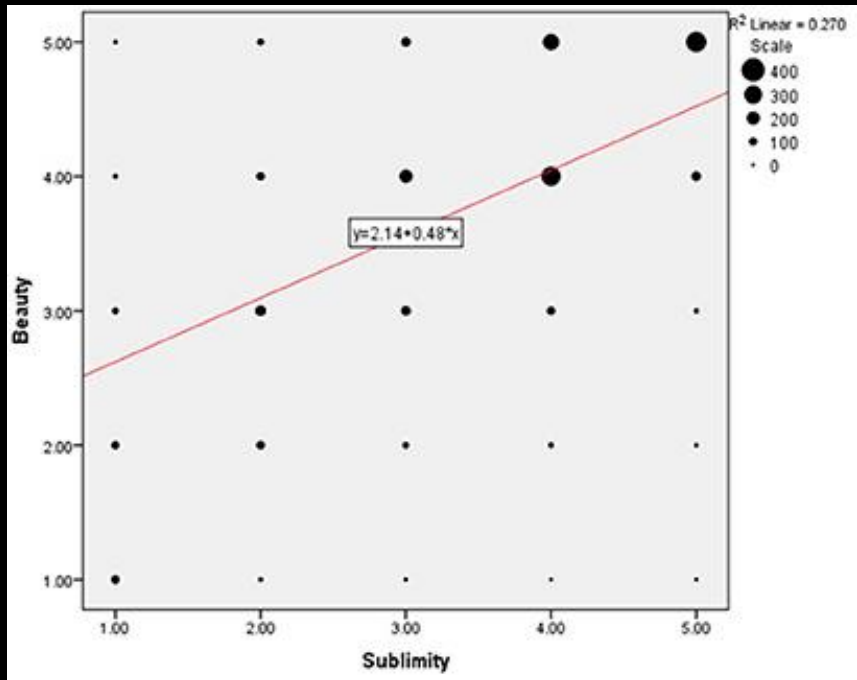


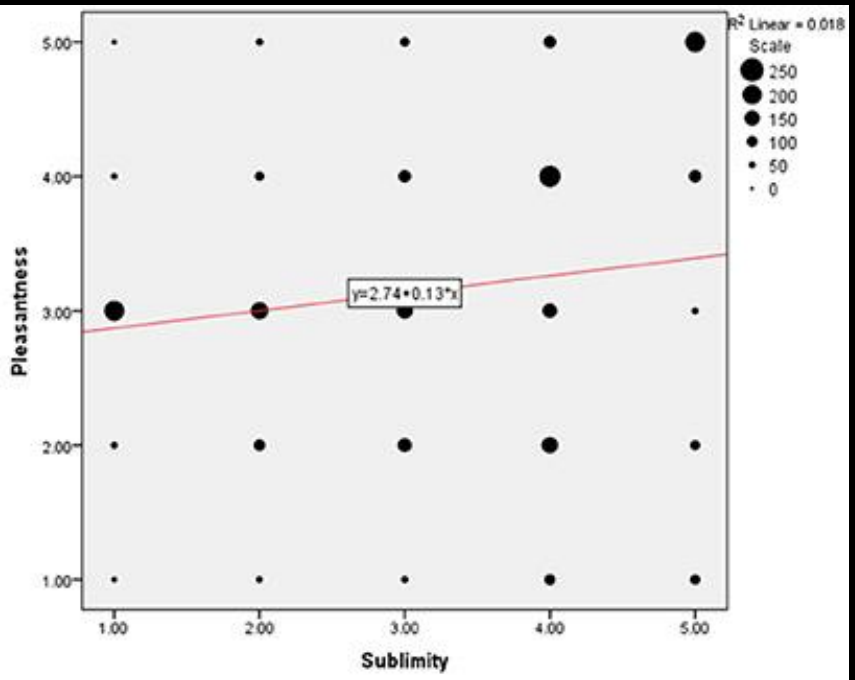
Activity with preference for simple kinetic motion

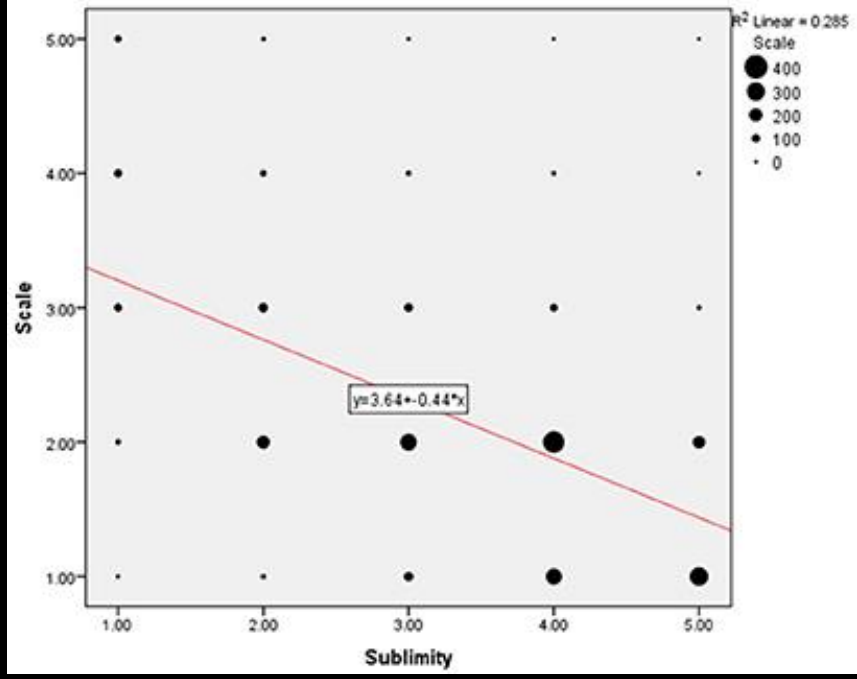


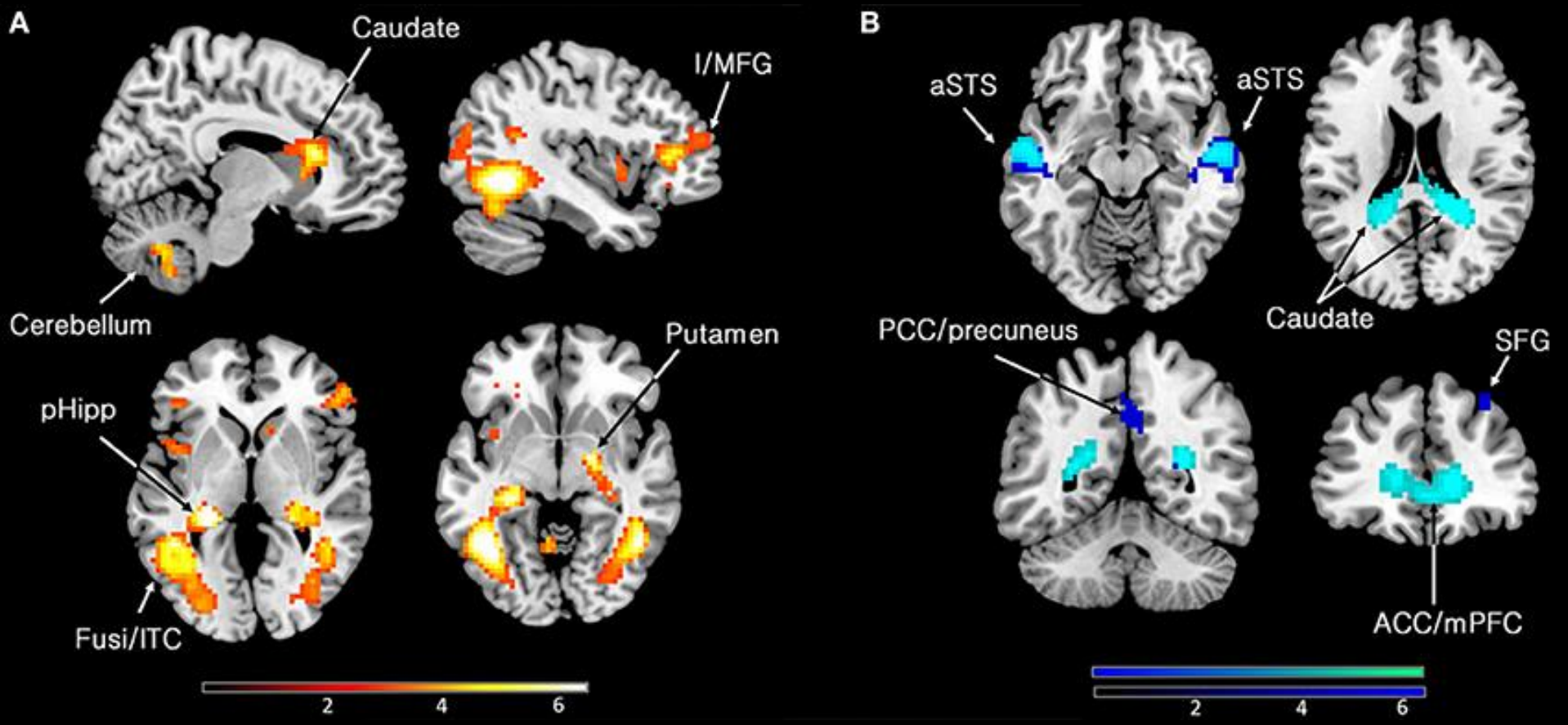
mOFC activation with rating for simple kinetic stimuli

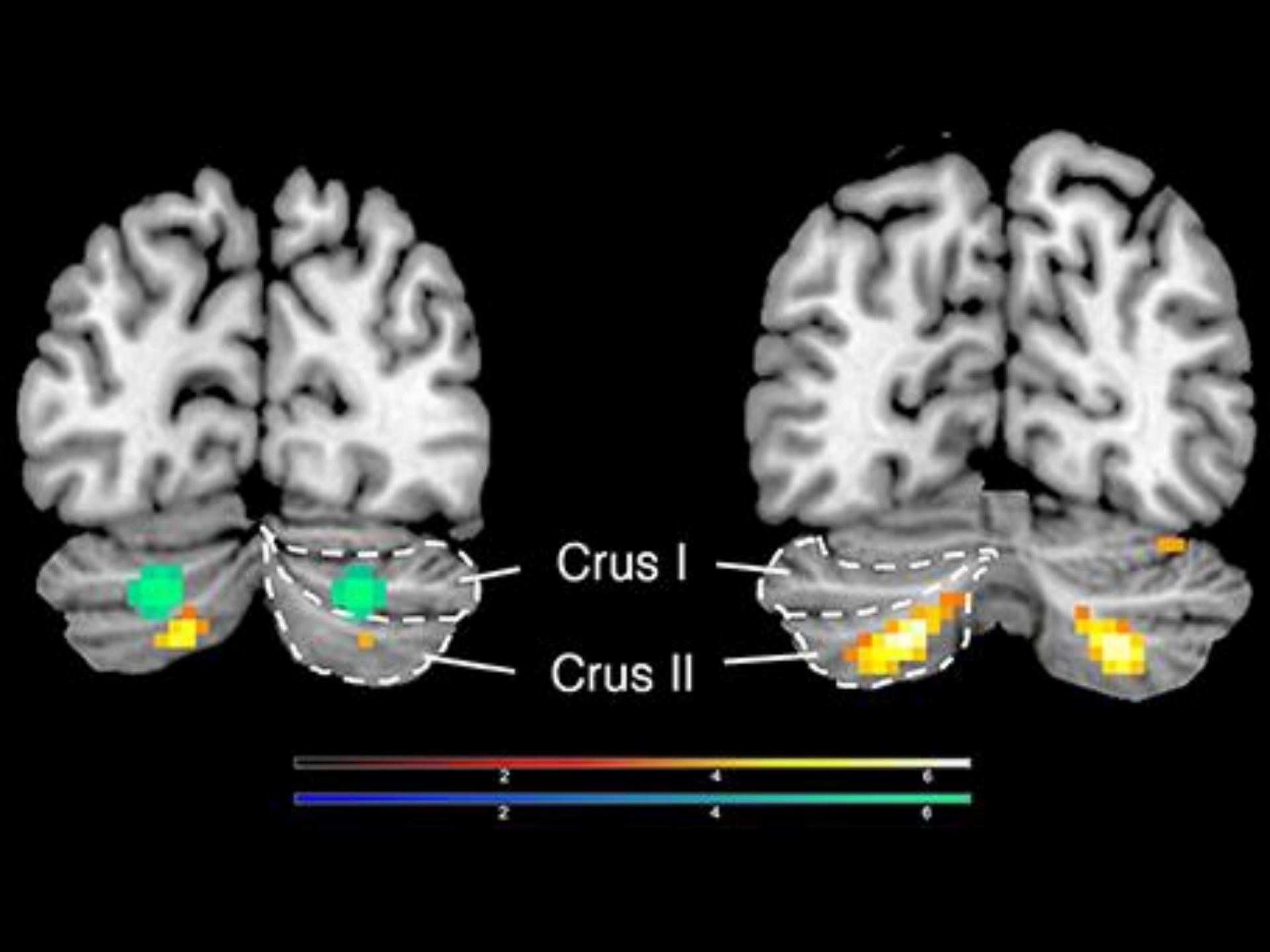


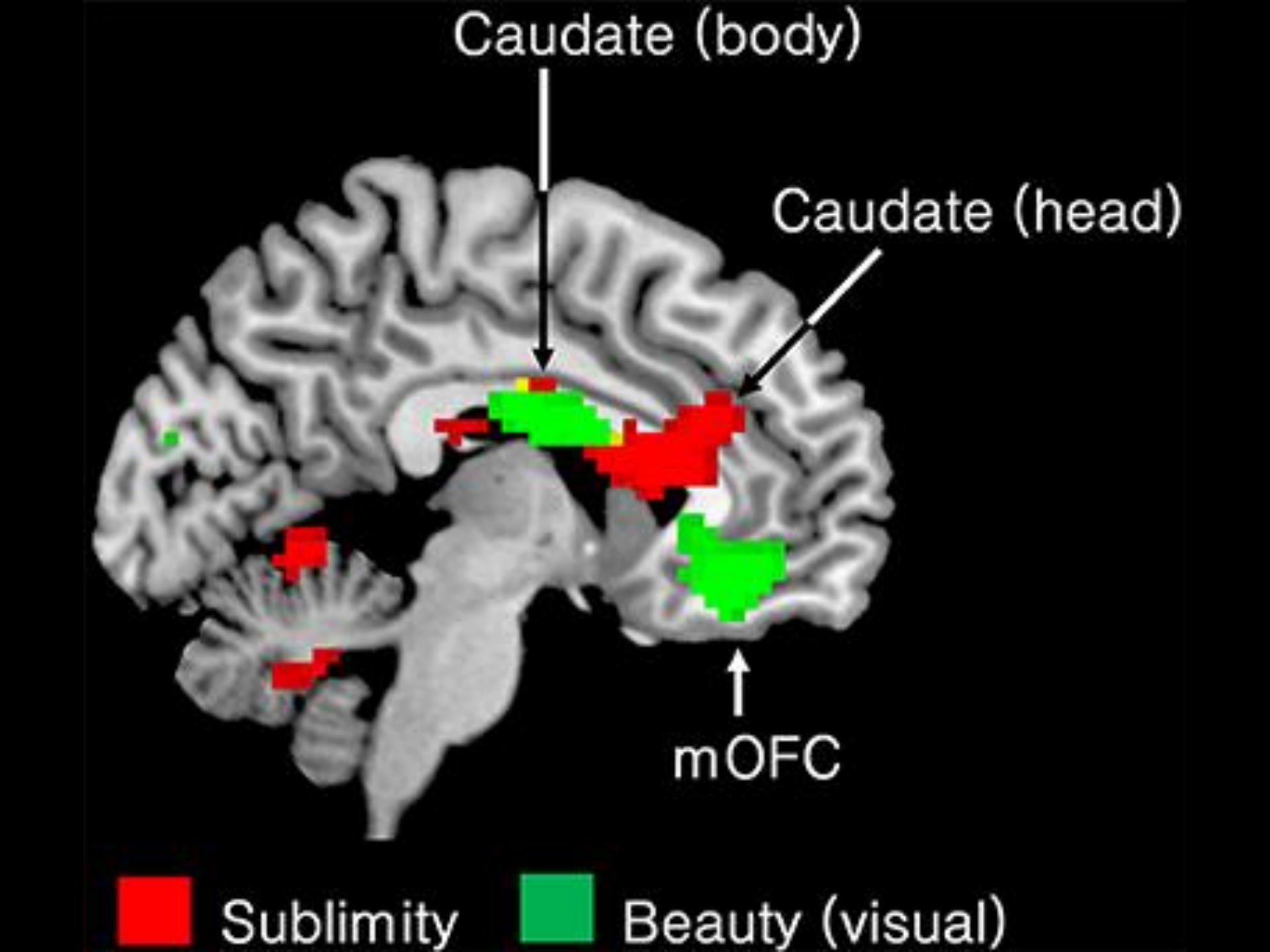

Beauty
Sublimity
y=2.14+0.48*x
R² Linear = 0.270
Scale
400
300
200
100
0
5.00
4.00
3.00
2.00
1.00
1.00
2.00
3.00
4.00
5.00


Pleasantness
Sublimity
y=2.74+0.13*x
R² Linear = 0.018
Scale
250
200
150
100
50
0
5.00
4.00
3.00
2.00
1.00
1.00
2.00
3.00
4.00
5.00


Scale
Sublimity
y=3.64+-0.44*x
R² Linear = 0.285
Scale
400
300
200
100
0
5.00
4.00
3.00
2.00
1.00
1.00
2.00
3.00
4.00
5.00


A
Caudate
I/MFG
Cerebellum
Putamen
pHipp
Fusi/ITC
2
4
6
B
aSTS
aSTS
Caudate
PCC/precuneus
SFG
ACC/mPFC
2
4
6


Crus I
Crus II
2
4
6
2
4
6

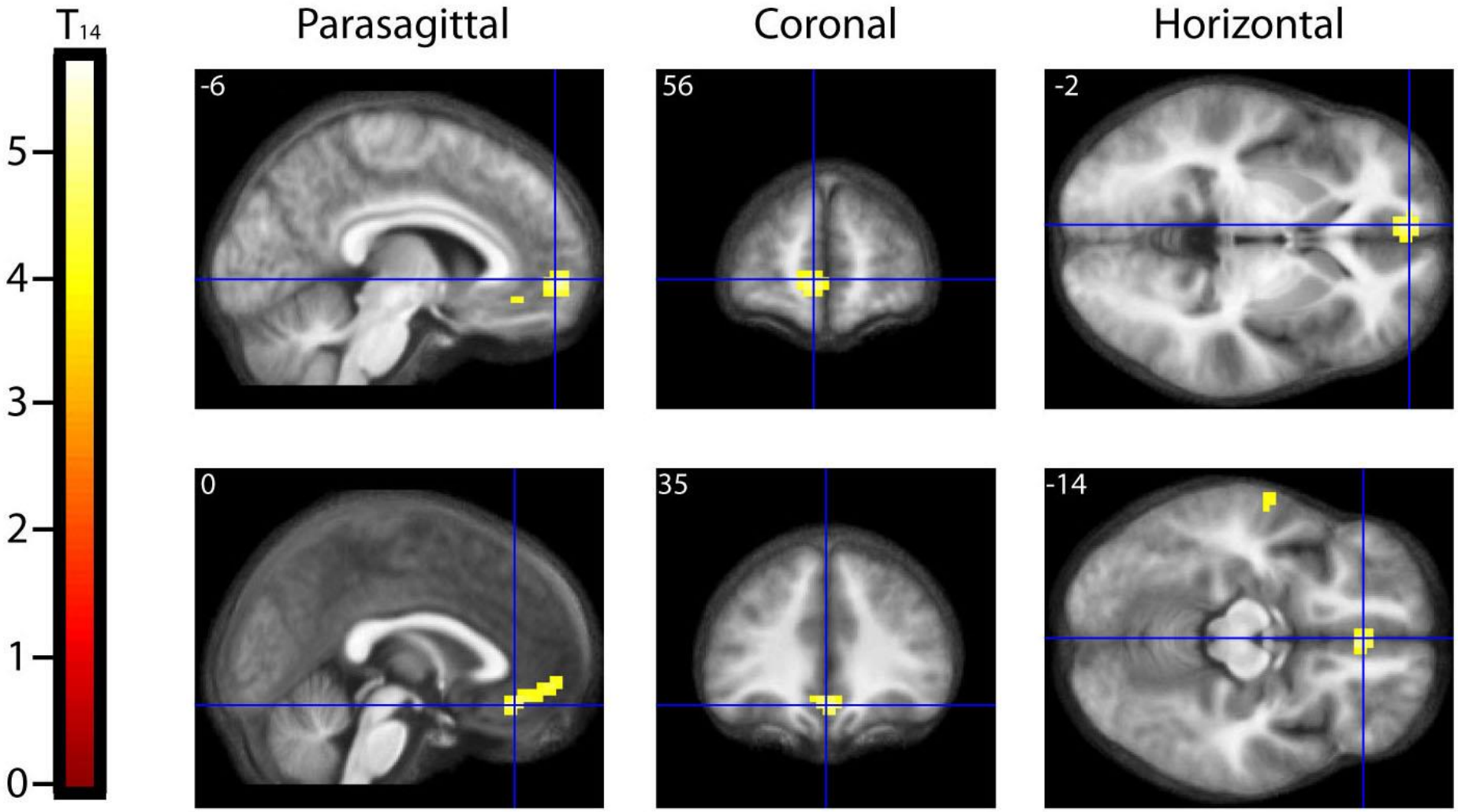

Caudate (body)
Caudate (head)
mOFC
Sublimity
Beauty (visual)

$$1 + e^{i\pi} = 0$$

Euler's identity links 5 fundamental mathematical constants with three basic arithmetic operations each occurring once.

$$\frac{1}{\pi} = \frac{2\sqrt{2}}{9801} \sum_{k=0}^{\infty} \frac{(4k)!\,(1103 + 26390k)}{(k!)^4\, 396^{4k}}$$

Srinivasa Ramanujan's equation expressing the inverse value of π as an infinite sum.


T14
5
4
3
2
1
0
Parasagittal
Coronal
Horizontal
-6
56
-2
0
35
-14