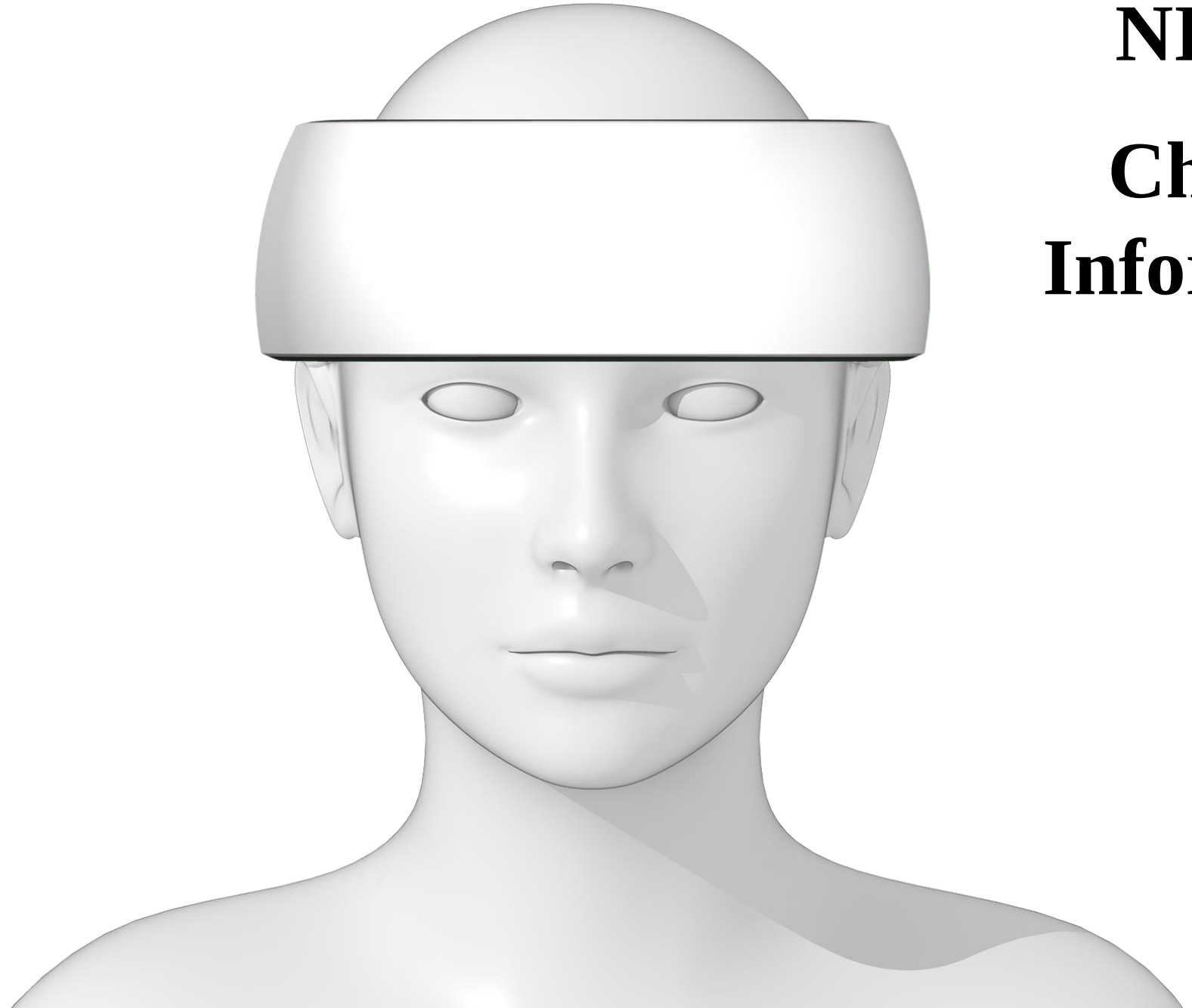
NIRSIT



NIRSIT

Channel Information

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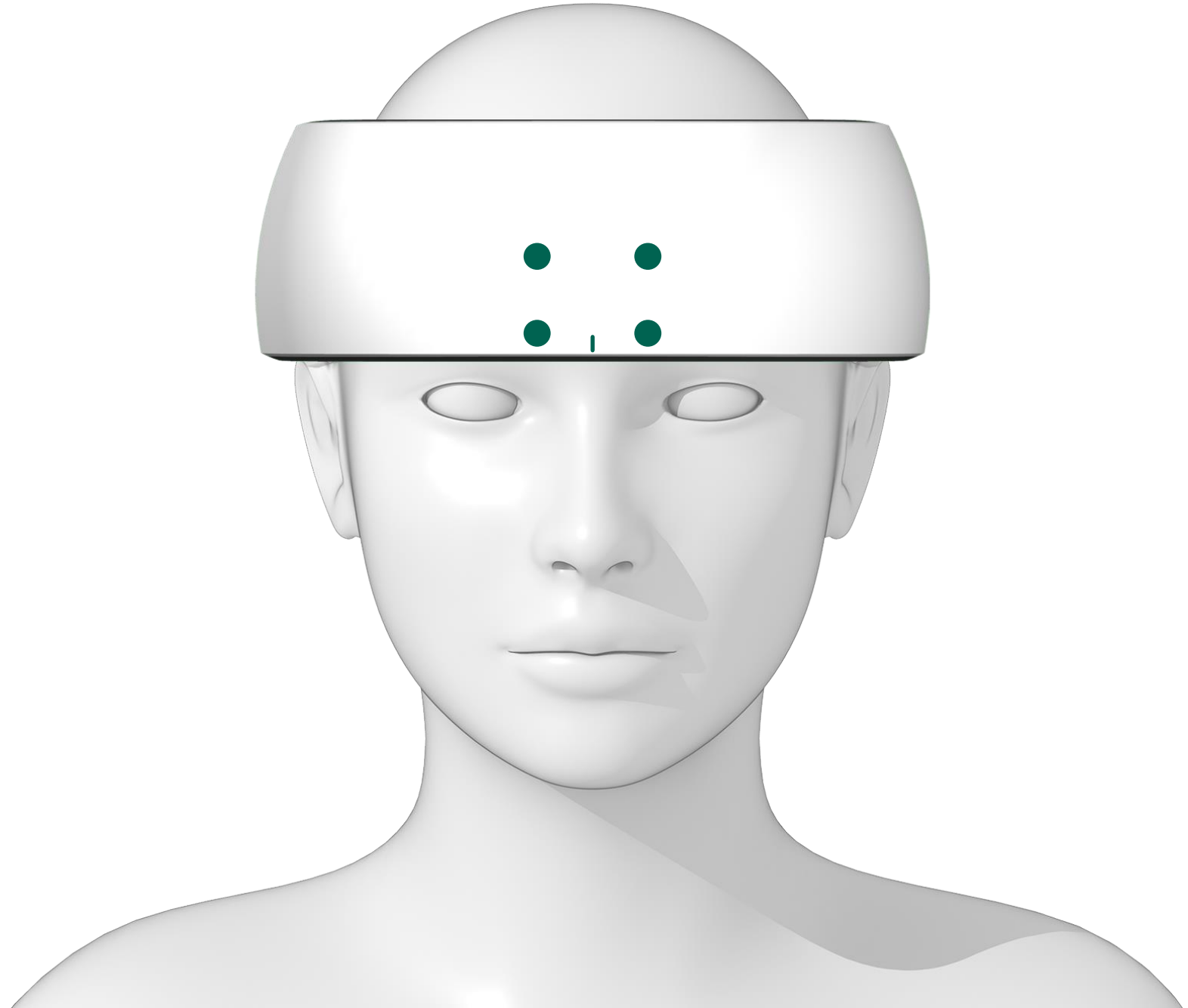

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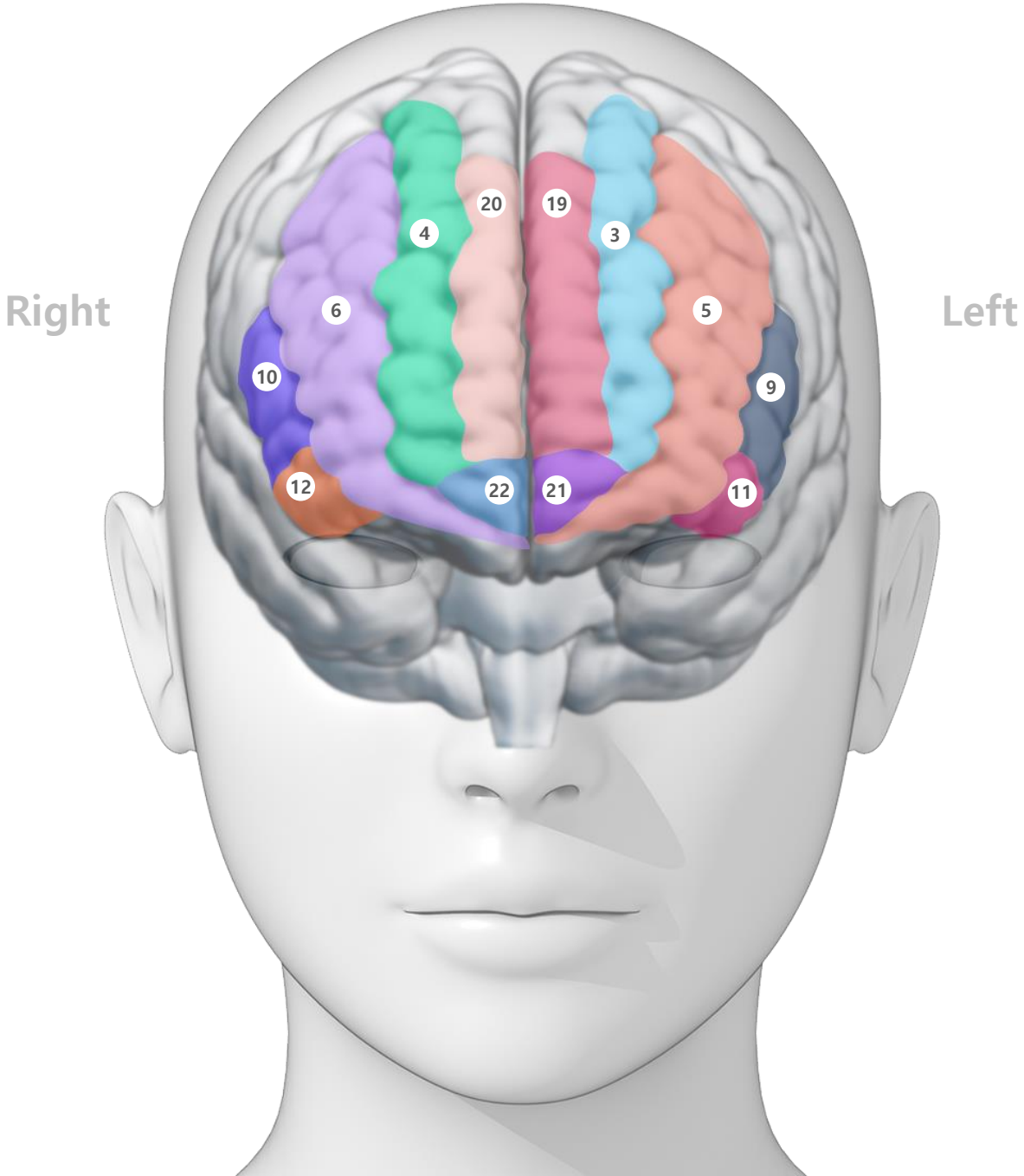
NIRSIT

AAL Label

on 3D Brian Templates



AAL index	Label	Location
3	Superior Frontal Gyrus, Dorsolateral	Left
4	Superior Frontal Gyrus, Dorsolateral	Right
5	Middle Frontal Gyrus	Left
6	Middle Frontal Gyrus	Right
9	Inferior Frontal Gyrus, Triangular Part	Left
10	Inferior Frontal Gyrus, Triangular Part	Right
11	Inferior Frontal Gyrus, Pars Orbitalis	Left
12	Inferior Frontal Gyrus, Pars Orbitalis	Right
19	Superior Frontal Gyrus, Medial	Left
20	Superior Frontal Gyrus, Medial	Right
21	Superior Frontal Gyrus, Medial Orbital	Left
22	Superior Frontal Gyrus, Medial Orbital	Right

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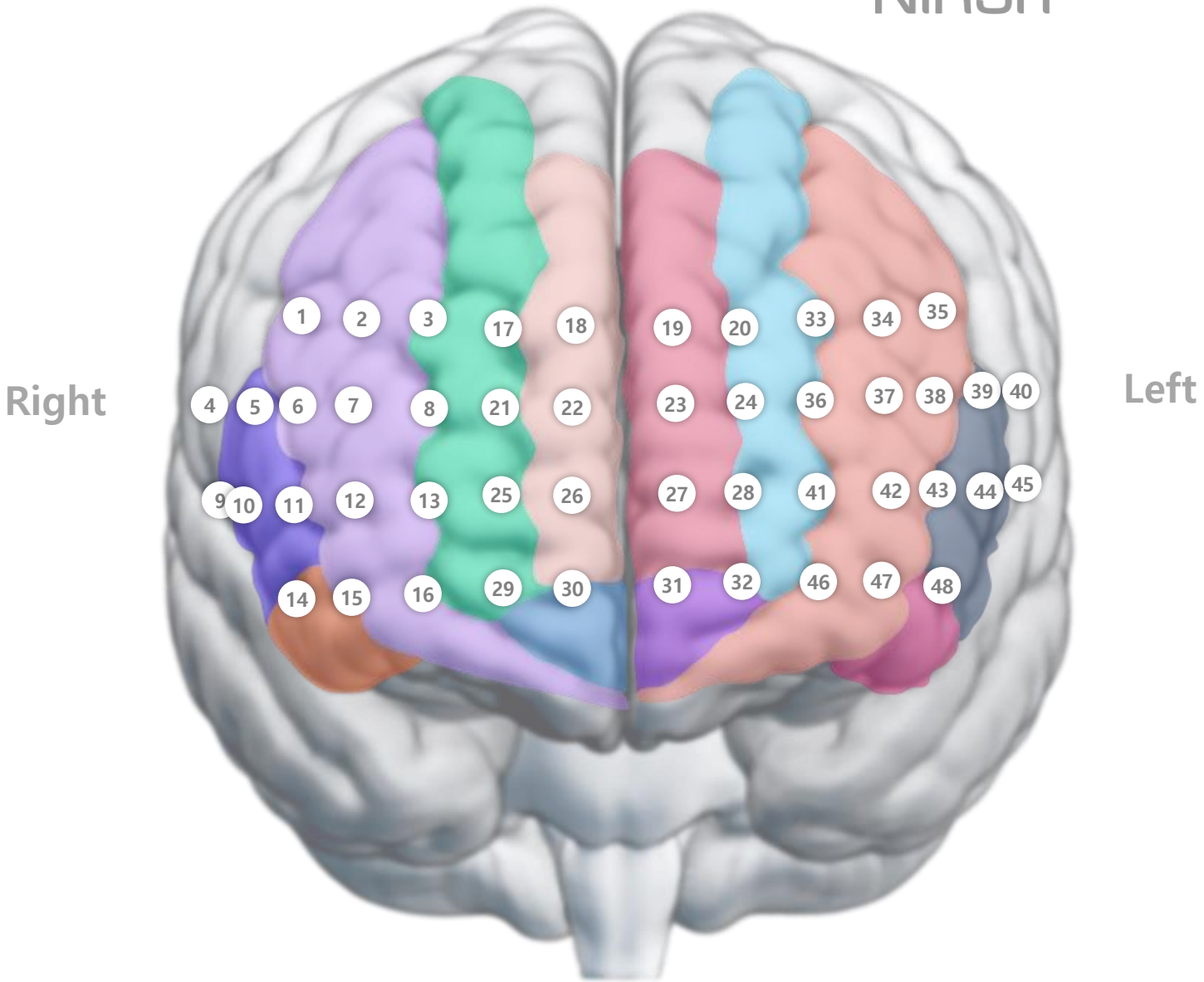
AAL Label

on 3D Brian Templates

NIRSIT



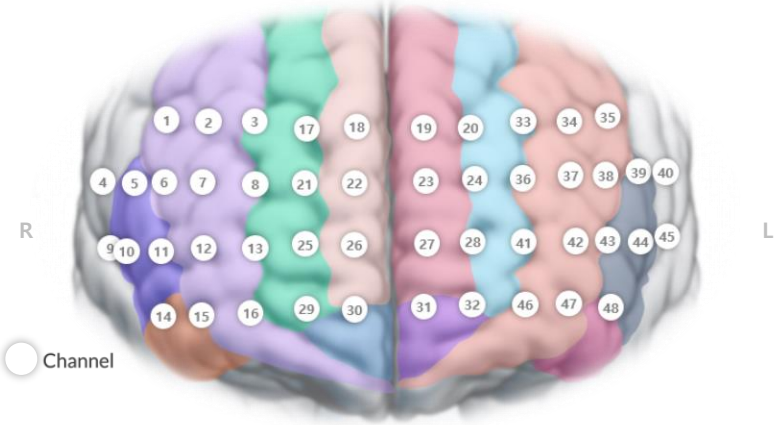
AAL index	Label	Location
3	Superior Frontal Gyrus, Dorsolateral	Left
4	Superior Frontal Gyrus, Dorsolateral	Right
5	Middle Frontal Gyrus	Left
6	Middle Frontal Gyrus	Right
9	Inferior Frontal Gyrus, Triangular Part	Left
10	Inferior Frontal Gyrus, Triangular Part	Right
11	Inferior Frontal Gyrus, Pars Orbitalis	Left
12	Inferior Frontal Gyrus, Pars Orbitalis	Right
19	Superior Frontal Gyrus, Medial	Left
20	Superior Frontal Gyrus, Medial	Right
21	Superior Frontal Gyrus, Medial Orbital	Left
22	Superior Frontal Gyrus, Medial Orbital	Right

AAL Label

on 3D Brian Templates

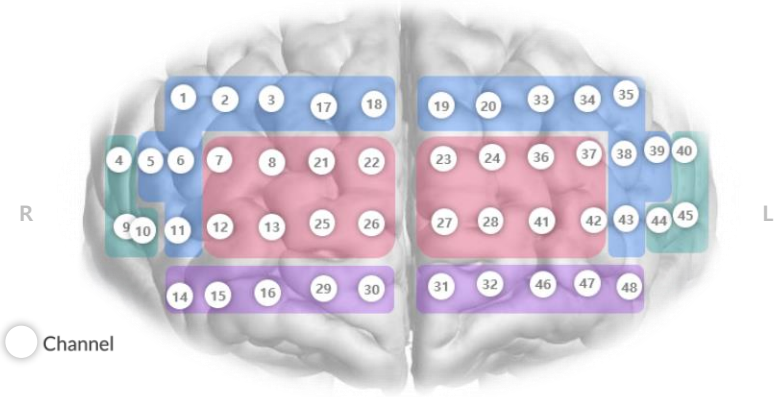
AAL index	Label	Location	AAL index	Label	Location
3	Superior Frontal Gyrus, Dorsolateral	Left	11	Inferior Frontal Gyrus, Pars Orbitalis	Left
4	Superior Frontal Gyrus, Dorsolateral	Right	12	Inferior Frontal Gyrus, Pars Orbitalis	Right
5	Middle Frontal Gyrus	Left	19	Superior Frontal Gyrus, Medial	Left
6	Middle Frontal Gyrus	Right	20	Superior Frontal Gyrus, Medial	Right
9	Inferior Frontal Gyrus, Triangular Part	Left	21	Superior Frontal Gyrus, Medial Orbital	Left
10	Inferior Frontal Gyrus, Triangular Part	Right	22	Superior Frontal Gyrus, Medial Orbital	Right

Estimated NIRSIT MNI Coordinates & AAL Label



Channels	X	Y	Z	Location	AAL Index (AAL 3V1)	AAL Label
CH 1	48.3	38.3	33.3	Right	6	Middle Frontal Gyrus
CH 2	40.3	48.3	32.3	Right	6	Middle Frontal Gyrus
CH 3	31.7	55.7	31.7	Right	6	Middle Frontal Gyrus
CH 4	61.0	22.7	21.3	Right	10	IFG, Triangular Part
CH 5	57.6	34.3	20.7	Right	10	IFG, Triangular Part
CH 6	49.7	46.3	20.7	Right	6	Middle Frontal Gyrus
CH 7	42.3	56.3	20.3	Right	6	Middle Frontal Gyrus
CH 8	33.7	63.0	19.0	Right	4	SFG, Dorsolateral
CH 9	60.0	27.7	7.3	Right	10	IFG, Triangular Part
CH 10	57.0	38.3	6.3	Right	10	IFG, Triangular Part
CH 11	50.0	51.0	6.0	Right	6	Middle Frontal Gyrus
CH 12	43.7	60.0	6.0	Right	6	Middle Frontal Gyrus
CH 13	33.3	67.0	5.7	Right	4	SFG, Dorsolateral
CH 14	50.0	51.3	-8.3	Right	12 | 6	IFG, Pars Orbitalis | MFG
CH 15	42.7	60.7	-7.7	Right	6	Middle Frontal Gyrus
CH 16	33.7	67.0	-7.7	Right	4	SFG, Dorsolateral
CH 17	21.0	62.0	31.7	Right	4	SFG, Dorsolateral
CH 18	11.0	65.0	32.0	Right	20	SFG, Medial
CH 19	-2.3	63.0	31.7	Left	19	SFG, Medial
CH 20	-14.3	62.7	32.7	Left	3	SFG, Dorsolateral
CH 21	22.0	69.7	19.0	Right	4	SFG, Dorsolateral
CH 22	11.7	71.0	19.3	Right	20	SFG, Medial
CH 23	-2.7	68.7	17.7	Left	19	SFG, Medial
CH 24	-15.0	70.0	19.0	Left	3	SFG, Dorsolateral
CH 25	22.3	72.0	5.7	Right	4	SFG, Dorsolateral
CH 26	11.7	74.0	5.7	Right	20	SFG, Medial
CH 27	-3.7	71.0	5.3	Left	19	SFG, Medial
CH 28	-15.3	73.0	5.3	Left	3	SFG, Dorsolateral
CH 29	21.7	71.0	-6.7	Right	4	SFG, Dorsolateral
CH 30	11.3	73.0	-7.7	Right	22	SFG, Medial Orbital
CH 31	-2.3	70.0	-7.7	Left	21	SFG, Medial Orbital
CH 32	-14.7	71.0	-8.7	Left	3	SFG, Dorsolateral
CH 33	-26.0	56.7	32.0	Left	3	SFG, Dorsolateral
CH 34	-37.7	48.7	32.3	Left	5	Middle Frontal Gyrus
CH 35	-46.7	37.7	32.3	Left	5	Middle Frontal Gyrus
CH 36	-26.7	65.0	19.7	Left	3	SFG, Dorsolateral
CH 37	-38.3	57.7	19.7	Left	5	Middle Frontal Gyrus
CH 38	-47.7	45.3	19.7	Left	5	Middle Frontal Gyrus
CH 39	-55.3	31.7	18.3	Left	9	IFG, Triangular Part
CH 40	-60.0	19.3	19.3	Left	9	IFG, Triangular Part
CH 41	-26.7	68.0	4.3	Left	3	SFG, Dorsolateral
CH 42	-39.0	61.7	4.3	Left	5	Middle Frontal Gyrus
CH 43	-48.3	49.7	4.3	Left	5	Middle Frontal Gyrus
CH 44	-55.0	36.7	3.7	Left	9	IFG, Triangular Part
CH 45	-58.0	23.7	5.3	Left	9	IFG, Triangular Part
CH 46	-26.7	67.0	-9.7	Left	3	SFG, Dorsolateral
CH 47	-38.3	60.7	-10.3	Left	5	Middle Frontal Gyrus
CH 48	-47.7	49.3	-10.7	Left	11 | 5	IFG, Pars Orbitalis | MFG

Estimated NIRSIT MNI Coordinates & Brodmann Label



Channels	X	Y	Z	Location	BA Label
CH 1	48.3	38.3	33.3	Right	Dorsolateral Prefrontal Cortex
CH 2	40.3	48.3	32.3	Right	Dorsolateral Prefrontal Cortex
CH 3	31.7	55.7	31.7	Right	Dorsolateral Prefrontal Cortex
CH 4	61.0	22.7	21.3	Right	Ventrolateral Prefrontal Cortex
CH 5	57.6	34.3	20.7	Right	Dorsolateral Prefrontal Cortex
CH 6	49.7	46.3	20.7	Right	Dorsolateral Prefrontal Cortex
CH 7	42.3	56.3	20.3	Right	Frontopolar Prefrontal Cortex
CH 8	33.7	63.0	19.0	Right	Frontopolar Prefrontal Cortex
CH 9	60.0	27.7	7.3	Right	Ventrolateral Prefrontal Cortex
CH 10	57.0	38.3	6.3	Right	Ventrolateral Prefrontal Cortex
CH 11	50.0	51.0	6.0	Right	Dorsolateral Prefrontal Cortex
CH 12	43.7	60.0	6.0	Right	Frontopolar Prefrontal Cortex
CH 13	33.3	67.0	5.7	Right	Frontopolar Prefrontal Cortex
CH 14	50.0	51.3	-8.3	Right	Orbitofrontal Cortex
CH 15	42.7	60.7	-7.7	Right	Orbitofrontal Cortex
CH 16	33.7	67.0	-7.7	Right	Orbitofrontal Cortex

Channels	X	Y	Z	Location	BA Label
CH 17	21.0	62.0	31.7	Right	Dorsolateral Prefrontal Cortex
CH 18	11.0	65.0	32.0	Right	Dorsolateral Prefrontal Cortex
CH 19	-2.3	63.0	31.7	Left	Dorsolateral Prefrontal Cortex
CH 20	-14.3	62.7	32.7	Left	Dorsolateral Prefrontal Cortex
CH 21	22.0	69.7	19.0	Right	Frontopolar Prefrontal Cortex
CH 22	11.7	71.0	19.3	Right	Frontopolar Prefrontal Cortex
CH 23	-2.7	68.7	17.7	Left	Frontopolar Prefrontal Cortex
CH 24	-15.0	70.0	19.0	Left	Frontopolar Prefrontal Cortex
CH 25	22.3	72.0	5.7	Right	Frontopolar Prefrontal Cortex
CH 26	11.7	74.0	5.7	Right	Frontopolar Prefrontal Cortex
CH 27	-3.7	71.0	5.3	Left	Frontopolar Prefrontal Cortex
CH 28	-15.3	73.0	5.3	Left	Frontopolar Prefrontal Cortex
CH 29	21.7	71.0	-6.7	Right	Orbitofrontal Cortex
CH 30	11.3	73.0	-7.7	Right	Orbitofrontal Cortex
CH 31	-2.3	70.0	-7.7	Left	Orbitofrontal Cortex
CH 32	-14.7	71.0	-8.7	Left	Orbitofrontal Cortex

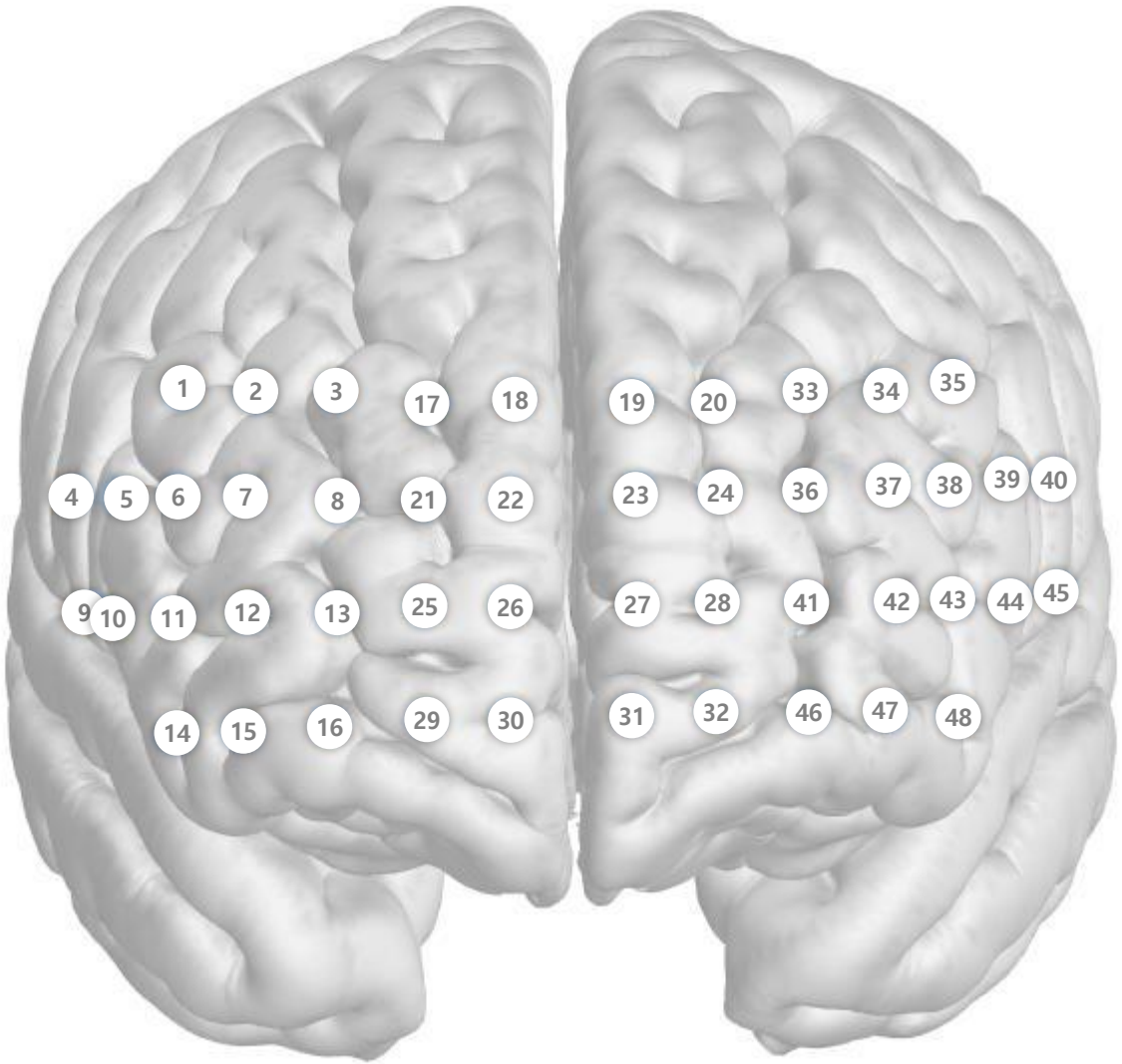
Channels	X	Y	Z	Location	BA Label
CH 33	-26.0	56.7	32.0	Left	Dorsolateral Prefrontal Cortex
CH 34	-37.7	48.7	32.3	Left	Dorsolateral Prefrontal Cortex
CH 35	-46.7	37.7	32.3	Left	Dorsolateral Prefrontal Cortex
CH 36	-26.7	65.0	19.7	Left	Frontopolar Prefrontal Cortex
CH 37	-38.3	57.7	19.7	Left	Frontopolar Prefrontal Cortex
CH 38	-47.7	45.3	19.7	Left	Dorsolateral Prefrontal Cortex
CH 39	-55.3	31.7	18.3	Left	Dorsolateral Prefrontal Cortex
CH 40	-60.0	19.3	19.3	Left	Ventrolateral Prefrontal Cortex
CH 41	-26.7	68.0	4.3	Left	Frontopolar Prefrontal Cortex
CH 42	-39.0	61.7	4.3	Left	Frontopolar Prefrontal Cortex
CH 43	-48.3	49.7	4.3	Left	Dorsolateral Prefrontal Cortex
CH 44	-55.0	36.7	3.7	Left	Ventrolateral Prefrontal Cortex
CH 45	-58.0	23.7	5.3	Left	Ventrolateral Prefrontal Cortex
CH 46	-26.7	67.0	-9.7	Left	Orbitofrontal Cortex
CH 47	-38.3	60.7	-10.3	Left	Orbitofrontal Cortex
CH 48	-47.7	49.3	-10.7	Left	Orbitofrontal Cortex

NIRSIT Channels

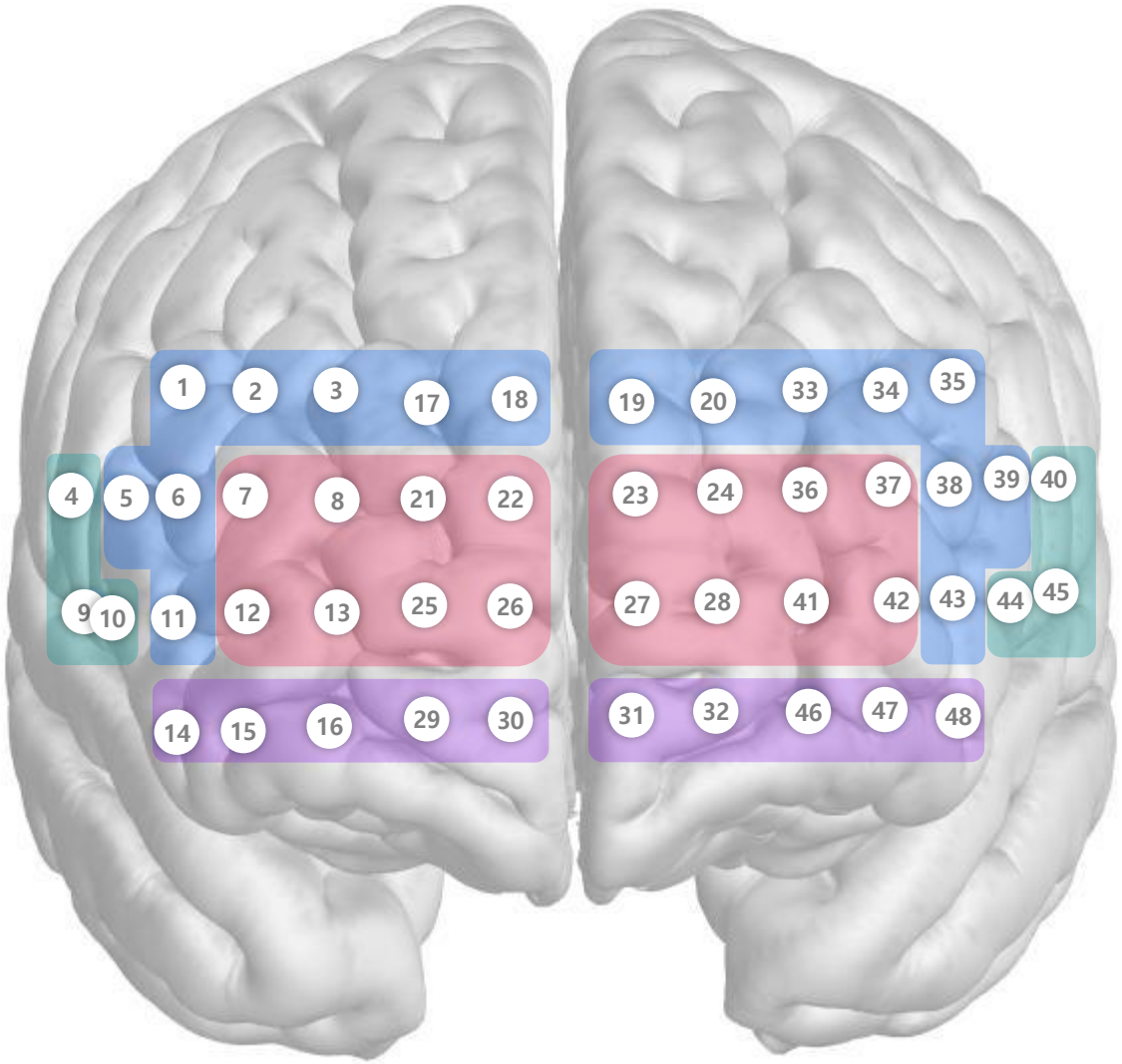
NIRSIT

Right

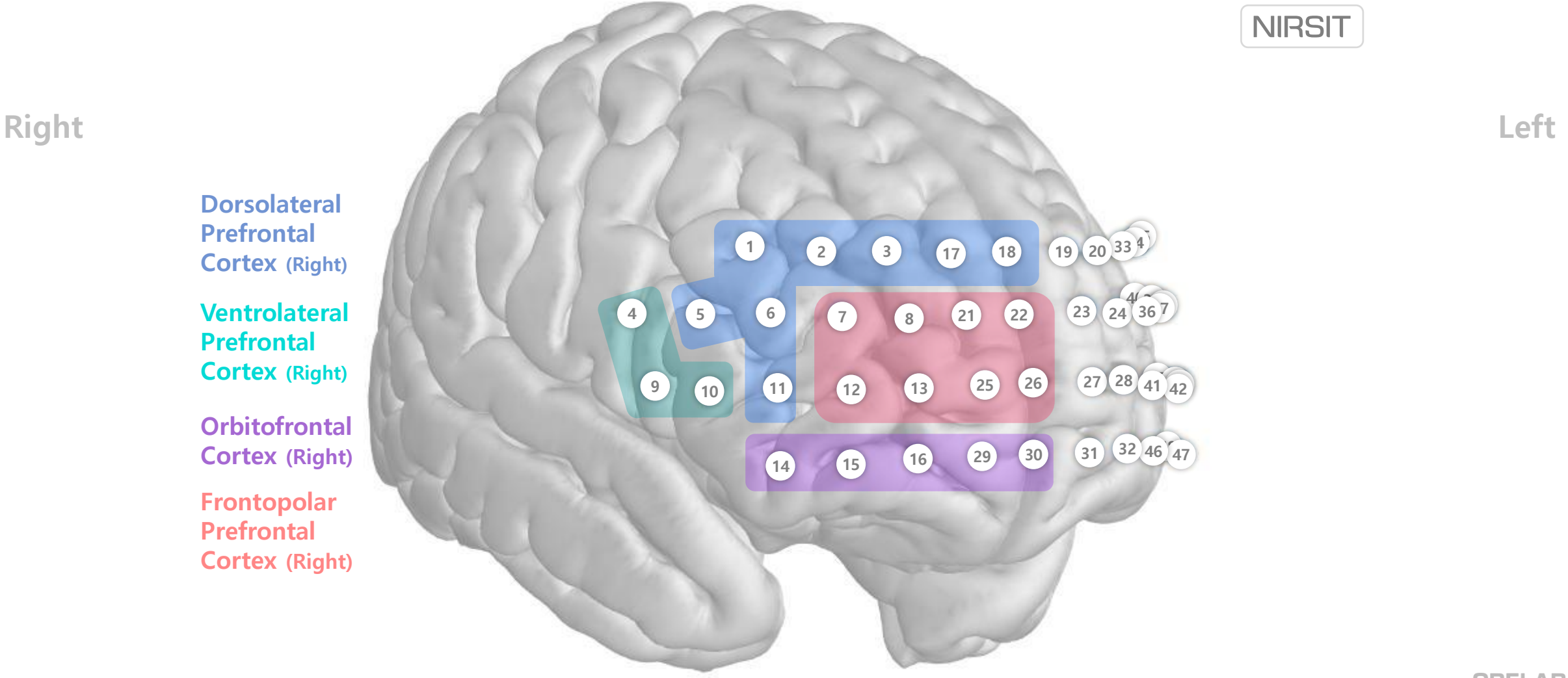
Left



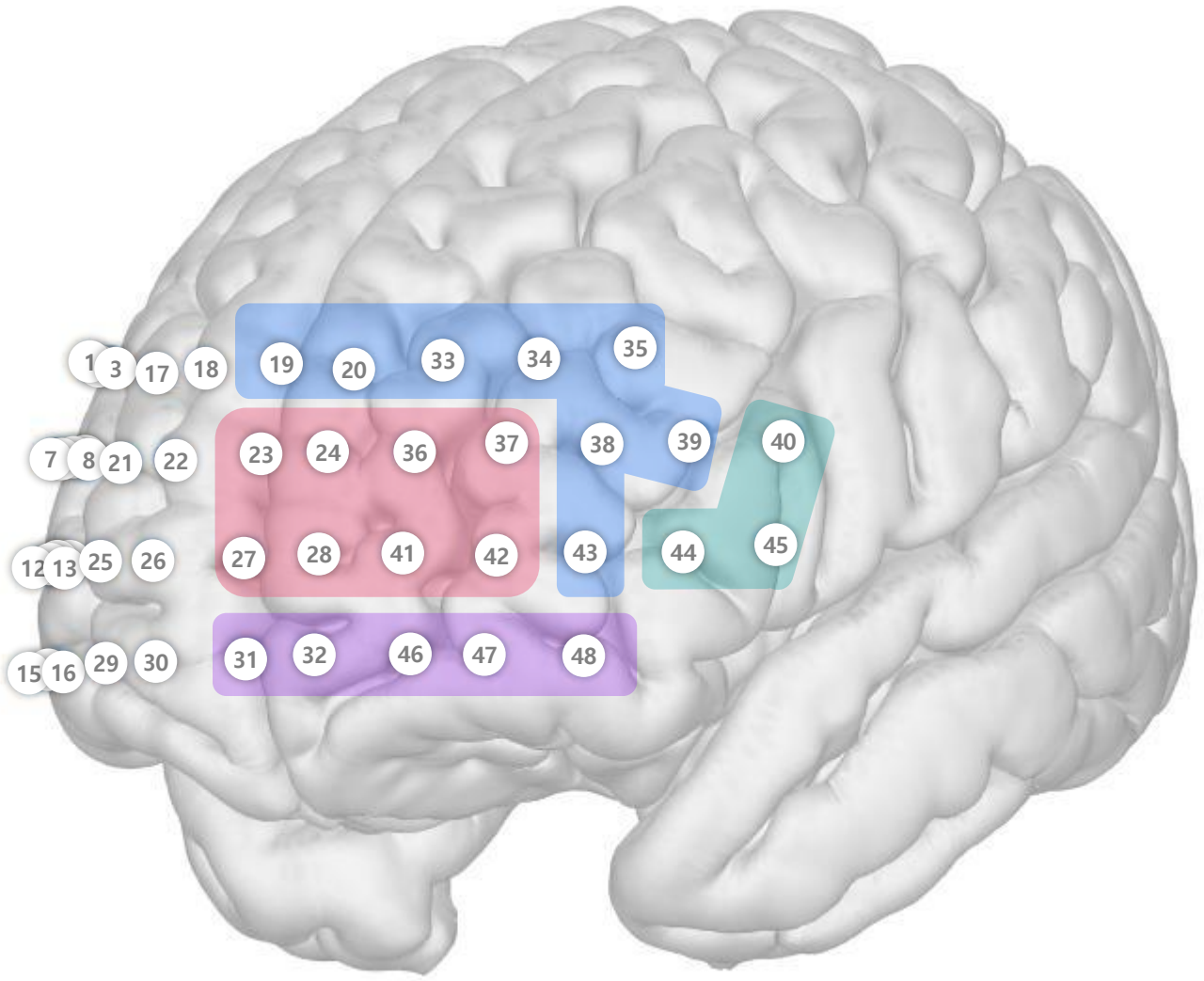
Brodmann Mapping of NIRSIT Channels



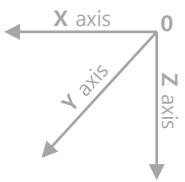
Brodmann Mapping of NIRSIT Channels

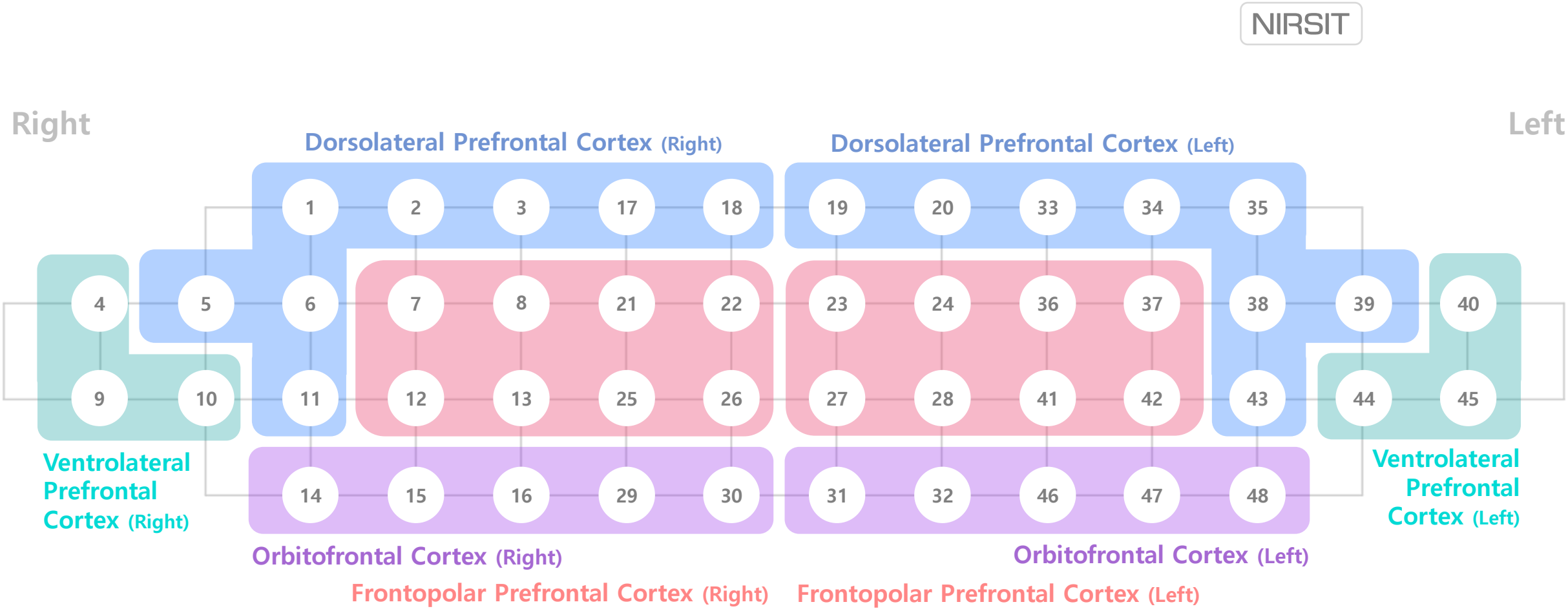


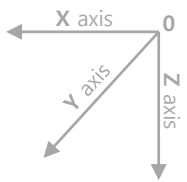
Brodmann Mapping of NIRSIT Channels



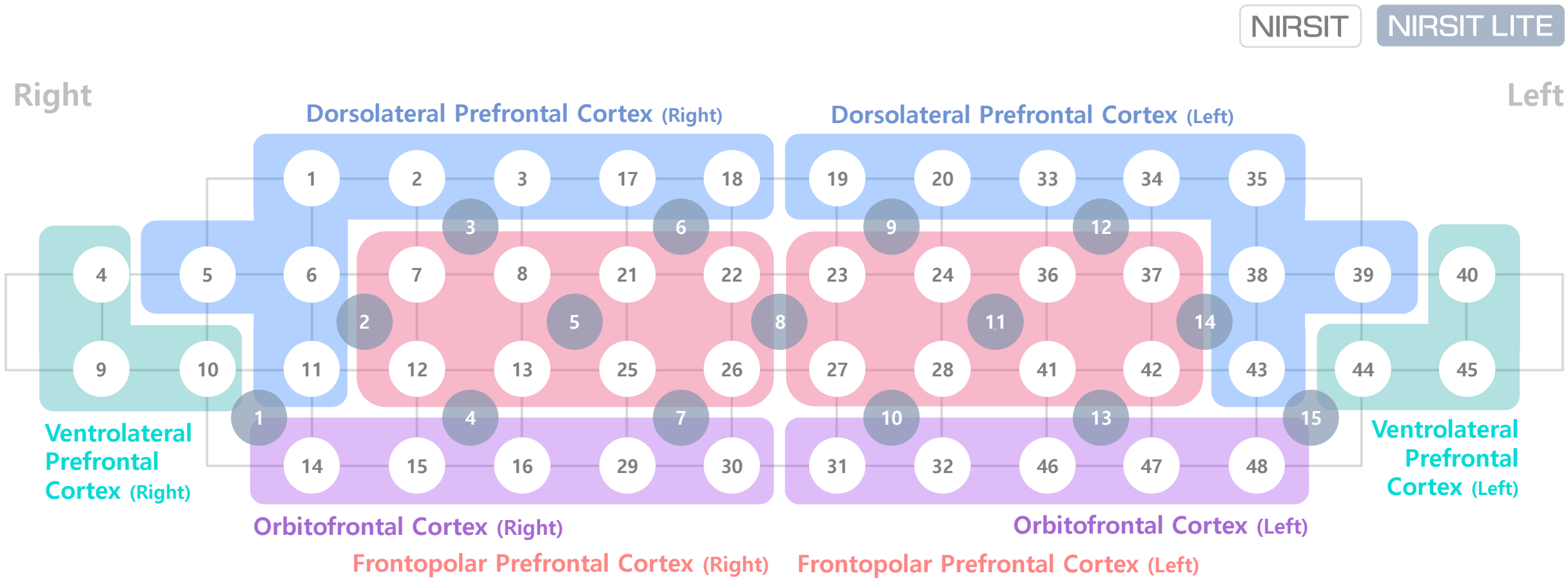
Brodmann Mapping of NIRSIT Channels





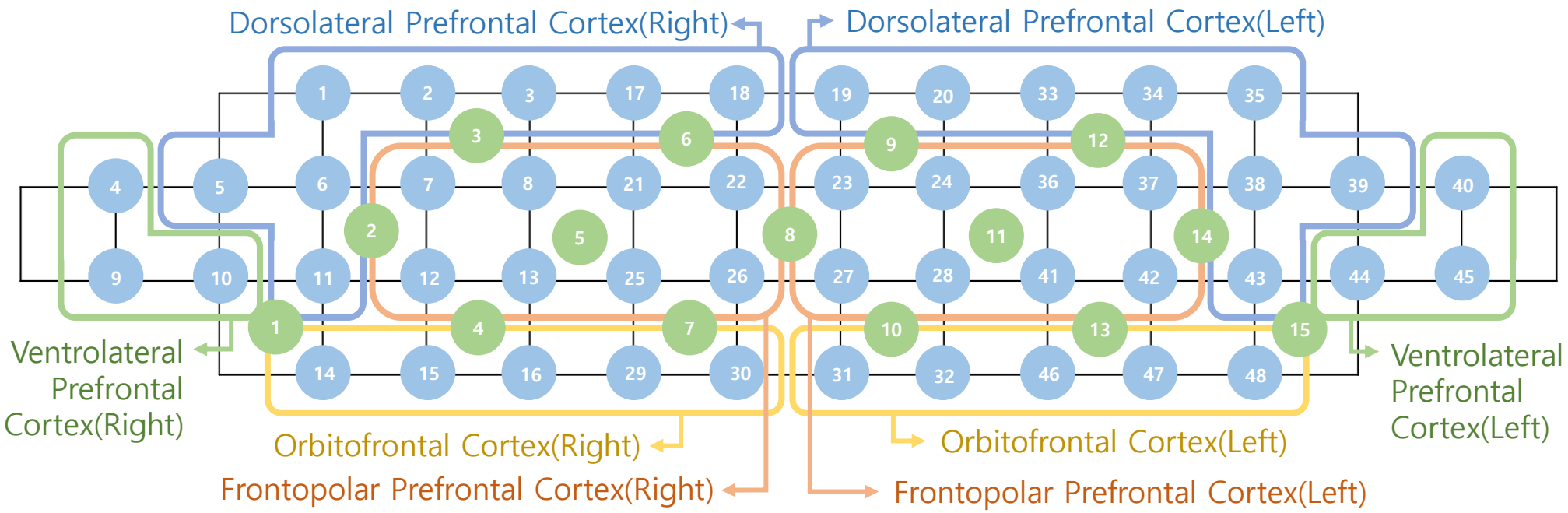


Brodmann Mapping of NIRSIT & NIRSIT LITE Channels

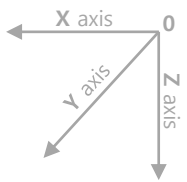


* NIRSIT LITE channels are superimposed on NIRSIT channel configuration for comparison.
Direct mapping of LITE channels to Brodmann regions is yet to be made.

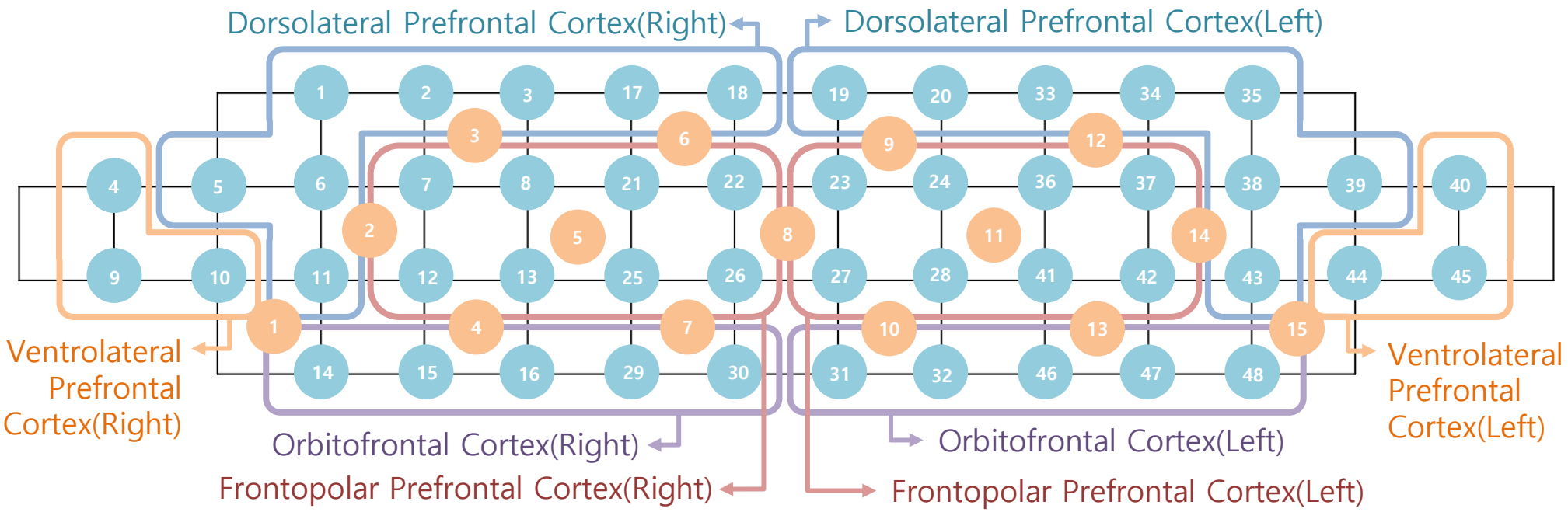
Brodmann Mapping of NIRSIT & NIRSIT LITE Channels



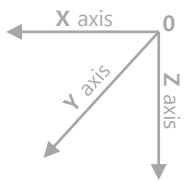
* NIRSIT LITE channels are superimposed on NIRSIT channel configuration for comparison. Direct mapping of LITE channels to Brodmann regions is yet to be made.



Brodmann Mapping of NIRSIT & NIRSIT LITE Channels



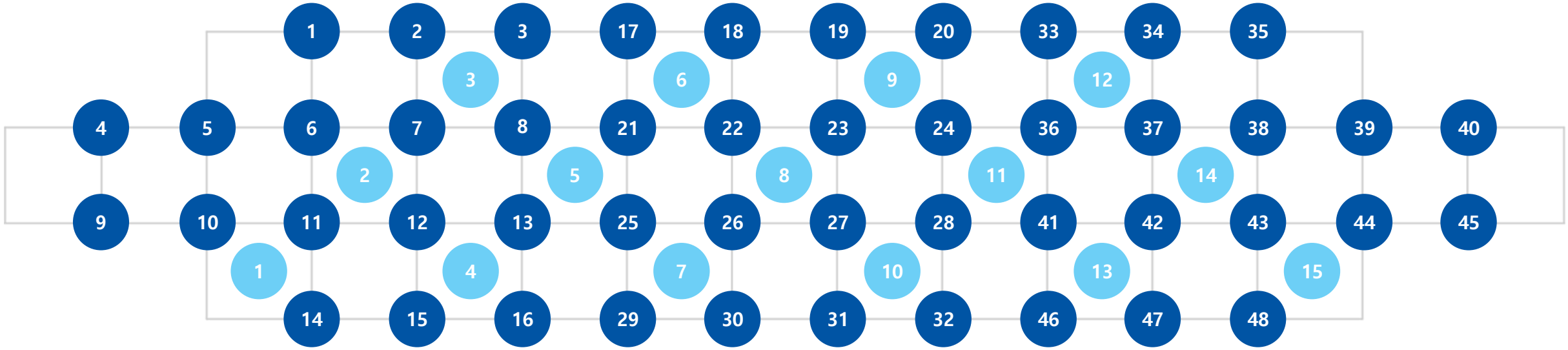
* NIRSIT LITE channels are superimposed on NIRSIT channel configuration for comparison. Direct mapping of LITE channels to Brodmann regions is yet to be made.



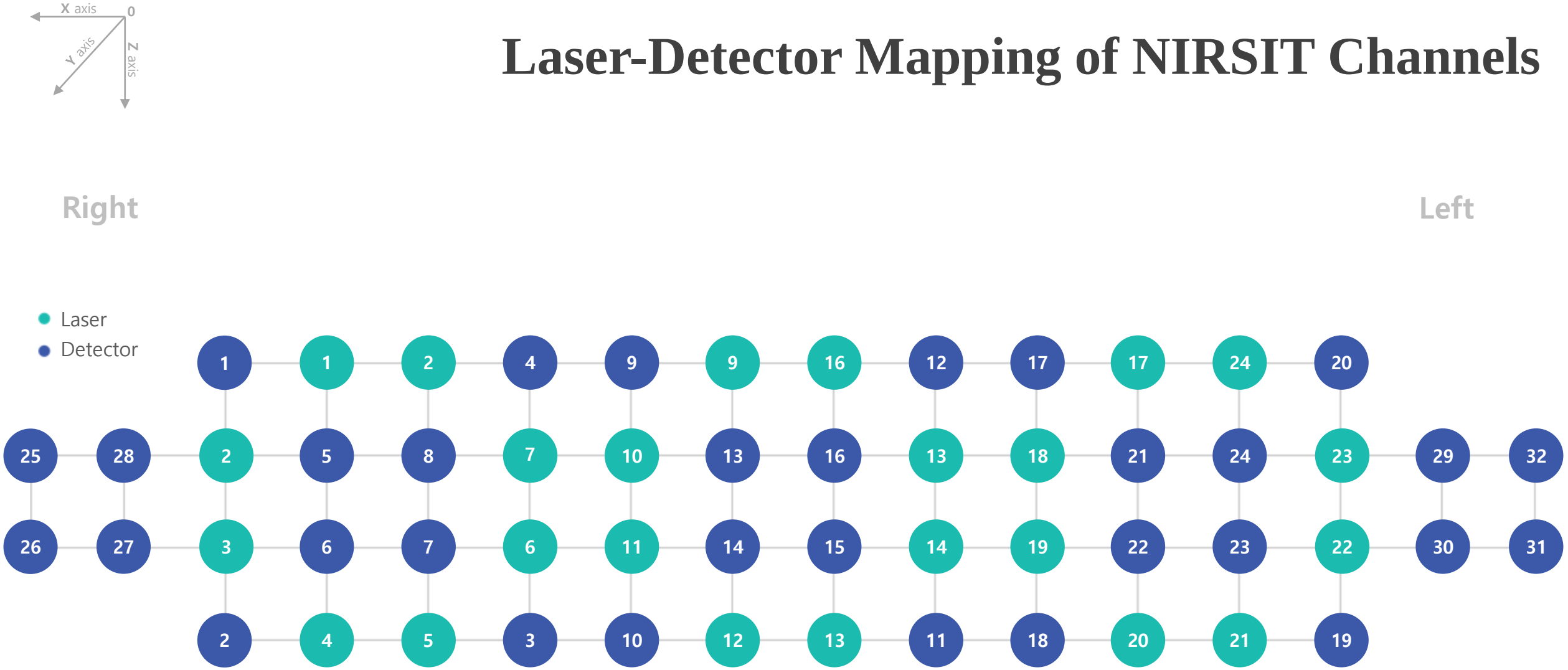
Brodmann Mapping of NIRSIT Channels

NIRSIT NIRSIT LITE

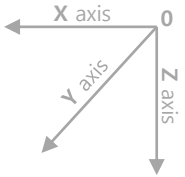
Right Left

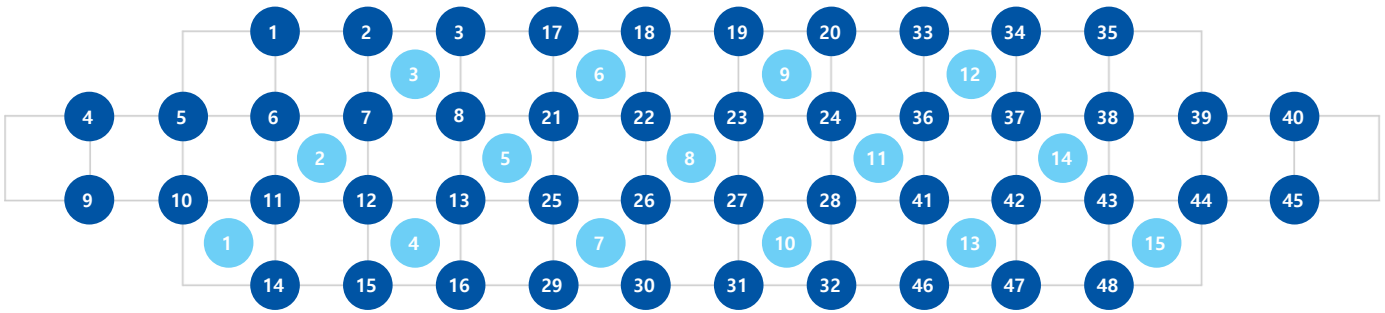


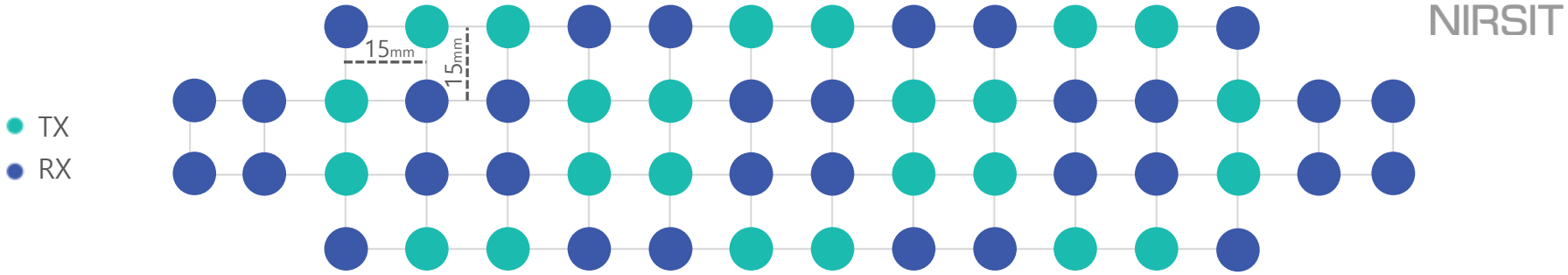
Laser-Detector Mapping of NIRSIT Channels



Laser-Detector Mapping of NIRSIT Channels







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