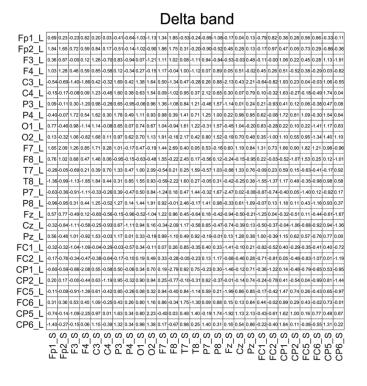
Brain-to-brain entrainment: EEG interbrain synchronization while speaking and listening.

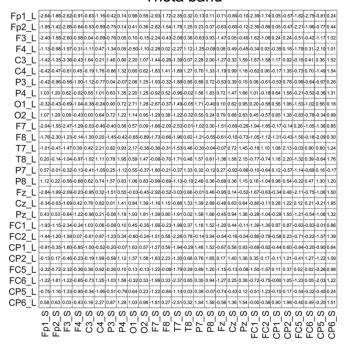
Authors: Alejandro Pérez*, Manuel Carreiras & Jon Andoni Duñabeitia.

^{*}Corresponding author

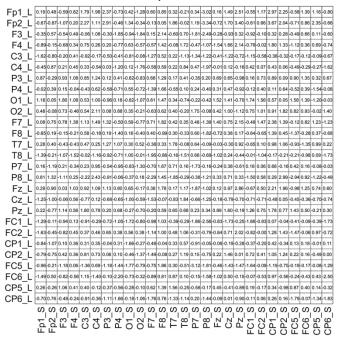
t values from the brain-to-brain synchronization analysis



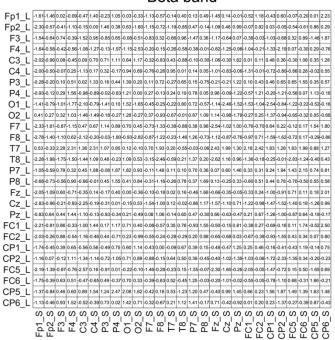
Theta band



Alpha band



Beta band



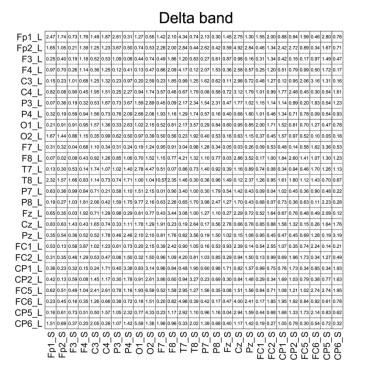
Supplementary Figure 1: Group-level statistical results from the brain-to-brain synchronization analysis at the different frequency bands. The matrices contain the t values from nonparametric bootstrap-based t-test method.

t values from the brain-audio synchronization analysis

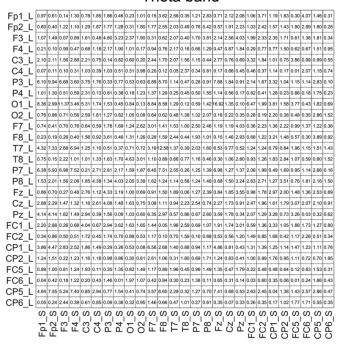
6.38 6.33 6.08 5.26 4.31 5.24 4.91 6.55 7.06 6.04 5.44 5.32 6.29	1.33 2.15 2.52 -0.54 0.94 -1.37 -0.94 -1.33 0.99 0.50 1.46	5.85 5.30 6.09 3.64 5.55 3.10 4.12 3.47 3.75 4.79 6.10 5.82	0.03 0.67 1.52 0.41 0.00 -1.16 0.62 0.42 0.51 -0.03 1.18	1.73 1.57 0.86 1.73 2.08 1.30 1.12 1.77 0.43 1.08	0.72 0.48 0.24 -0.20 0.38 -0.18 0.09 -2.26 0.44 1.74	-0.43 0.79 0.88 1.69 0.32 -0.23 -0.26 0.86 1.50 0.86
6.08 5.26 4.31 5.24 4.91 6.55 7.06 6.04 5.44 5.32 6.29	2.52 -0.54 0.94 -1.37 -0.94 -1.33 0.99 0.50 1.46	6.09 3.64 5.55 3.10 4.12 3.47 3.75 4.79 6.10	1.52 0.41 0.00 -1.16 0.62 0.42 0.51 -0.03	0.86 1.73 2.08 1.30 1.12 1.77 0.43	0.24 -0.20 0.38 -0.18 0.09 -2.26	0.88 1.69 0.32 -0.23 -0.26 0.86 1.50
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4.31 5.24 4.91 6.55 7.06 6.04 5.44 5.32 6.29	0.94 -1.37 -0.94 -1.33 0.99 0.50 1.46 0.22	5.55 3.10 4.12 3.47 3.75 4.79 6.10	0.00 -1.16 0.62 0.42 0.51 -0.03	2.08 1.30 1.12 1.77 0.43 1.08	0.38 -0.18 0.09 -2.26 0.44	0.32 -0.23 -0.26 0.86 1.50
5.24 4.91 6.55 7.06 6.04 5.44 5.32 6.29	-1.37 -0.94 -1.33 0.99 0.50 1.46	3.10 4.12 3.47 3.75 4.79 6.10	-1.16 0.62 0.42 0.51 -0.03	1.30 1.12 1.77 0.43 1.08	-0.18 0.09 -2.26 0.44	-0.23 -0.26 0.86 1.50
4.91 6.55 7.06 6.04 5.44 5.32 6.29	-0.94 -1.33 0.99 0.50 1.46 0.22	4.12 3.47 3.75 4.79 6.10	0.62 0.42 0.51 -0.03	1.12 1.77 0.43 1.08	0.09 -2.26 0.44	-0.26 0.86 1.50
6.55 7.06 6.04 5.44 5.32 6.29	-1.33 0.99 0.50 1.46 0.22	3.47 3.75 4.79 6.10	0.42 0.51 -0.03	1.77 0.43 1.08	-2.26 0.44	0.86 1.50
7.06 6.04 5.44 5.32 6.29	0.99 0.50 1.46 0.22	3.75 4.79 6.10	0.51	0.43 1.08	0.44	1.50
6.04 5.44 5.32 6.29	0.50 1.46 0.22	4.79 6.10	-0.03	1.08		
5.44 5.32 6.29	1.46	6.10			1.74	0.86
5.32 6.29	0.22		1.18	2.24		
6.29		5.82		2.34	0.85	0.90
	4.00		-0.48	2.22	0.99	1.48
4.04	1.26	7.13	0.53	1.28	0.70	0.33
4.94	-1.51	5.78	-0.76	2.37	-2.01	-0.83
6.10	0.79	5.69	0.81	1.86	0.19	1.00
7.39	2.20	5.42	1.26	2.14	-0.32	0.60
4.78	0.42	5.21	1.32	3.04	-0.41	2.21
4.87	-1.13	3.24	0.74	1.00	-0.82	0.94
5.93	1.35	4.61	1.29	2.86	-0.31	1.40
5.17	1.85	5.68	1.20	1.95	0.77	0.56
4.30	-0.55	3.76	-0.49	1.31	-1.12	0.78
3.84	-0.78	4.45	0.01	1.07	-0.80	0.07
7.42	1.94	4.74	0.65	1.74	0.49	1.28
5.97	2.15	6.19	-0.05	2.05	1.12	0.08
5.52	-1.90	3.88	-0.28	2.01	-0.63	0.33
4.50	0.04	4.90	-0.17	1.16	-1.31	0.46
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Supplementary Figure 2: Group-level statistical results from the brain-audio envelope synchronization analysis of the Listener and the Speaker at the different frequency bands. The matrix contains the t values from nonparametric bootstrap-based t-test method.

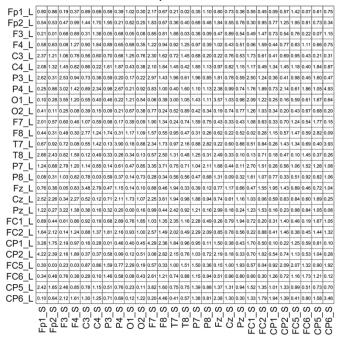
F values from the multiple linear regression modelling



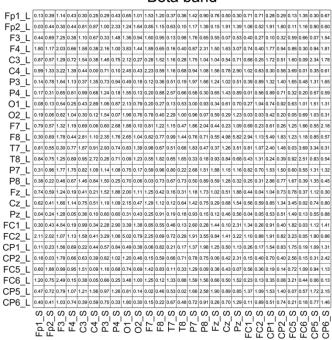
Theta band



Alpha band

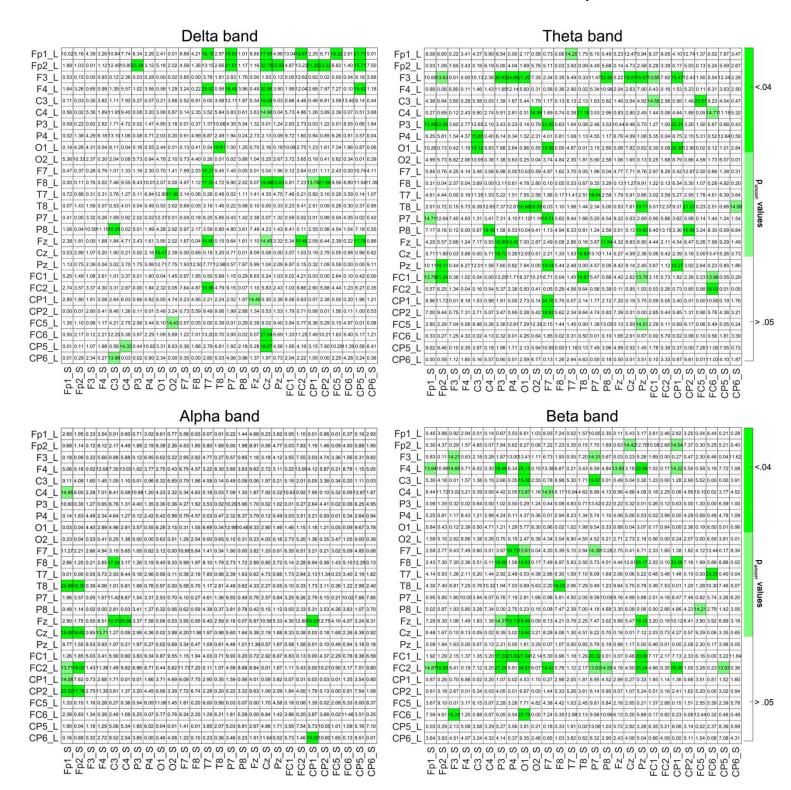


Beta band



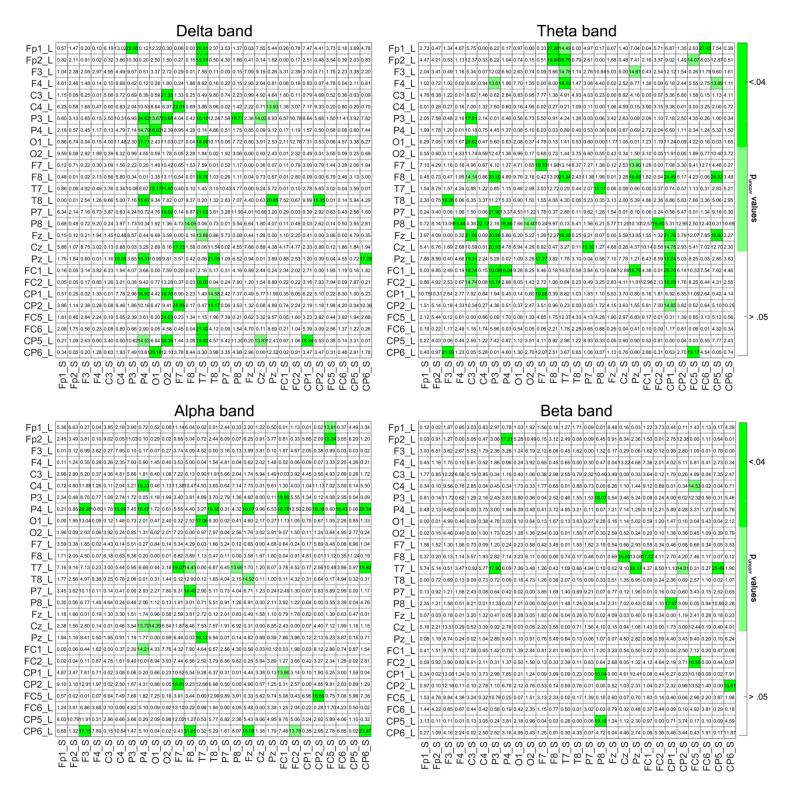
Supplementary Figure 3: F statistic associated to the p values obtained from the multiple linear regression modelling analysis using the full model (Figure 3).

Results from the multiple linear regression modelling Model 1: listener brain-audio entrainment as predictor



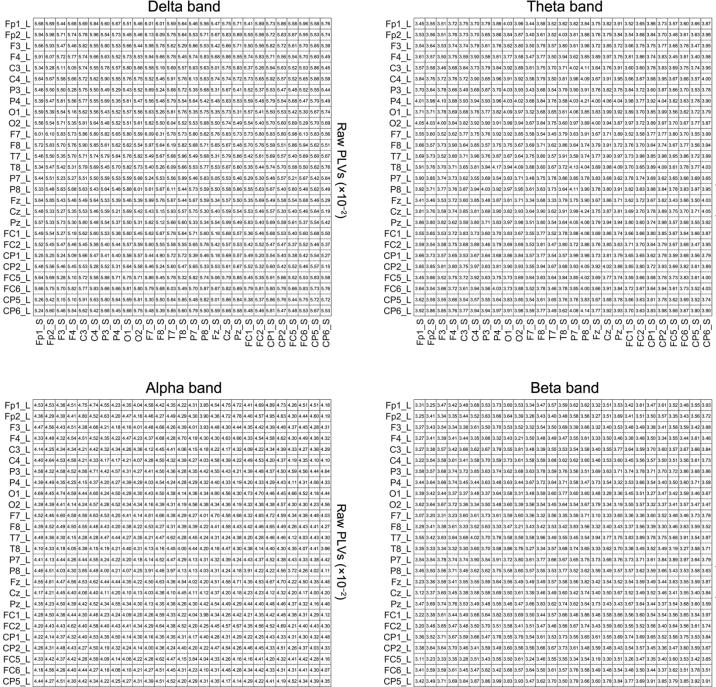
Supplementary Figure 4: Group-level statistical results from the multiple linear regression modelling analysis (Model 1) at the different frequency bands. The matrixes contain the coefficient estimates (R2 values) for a multilinear regression of the brain-to-brain entrainment response using as predictor the brain entrainment to speech of the listeners. Statistically significant percentage of variance explained is indicated by coloring in green the corresponding cells where p<.05. Rows represent the electrodes of the Listener and columns represent the electrodes of the Speaker.

Results from the multiple linear regression modelling Model 2: speaker brain-audio entrainment as predictor



Supplementary Figure 5: Group-level statistical results from the multiple linear regression modelling analysis (Model 2) at the different frequency bands. The matrixes contain the coefficient estimates (R2 values) for a multilinear regression of the brain-to-brain entrainment response using as predictor the brain entrainment to speech of the speakers. Statistically significant percentage of variance explained is indicated by coloring in green the corresponding cells where p<.05. Rows represent the electrodes of the Listener and columns represent the electrodes of the Speaker.

Brain-to-brain synchronization



Supplementary Figure 6: Mean raw PLVs (averaged across conditions) obtained from the interbrain synchronization analysis in the delta, theta, alpha and beta band. Rows are the electrodes of the Listener and columns are the electrodes of the Speaker. Each cell corresponds to a listener-speaker's electrode pair. Values are in scientific notation (i.e. $PLV \times 10^{-2}$).

CP6_L 4.27 4.51 4.17 4.26 4.02 4.21 4.00 4.02 4.11 4.17 4.08 4.40 4.12 4.04 4.23 4.15 4.31 4.21 4.10 4.21 4.27 4.24 4.32 3.90 4.23 3.99 4.02

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 $\textbf{CP6_L} \ [3.35 \ | 3.57 \ | 3.75 \ | 3.72 \ | 3.53 \ | 3.55 \ | 3.78 \ | 3.55 \ | 3.78 \ | 3.54 \ | 3.79 \ | 3.55 \ | 3.60 \ | 3.55 \ | 3.67 \ | 3.89 \ | 3.73 \ | 3.40 \ | 3.66 \ | 3.55 \ | 3.45 \ | 3.60 \ | 3.60 \ | 3.65 \ | 3.40 \ | 3.58 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \ | 3.54 \$

Brain-audio envelope synchronization

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ox.	N/O	X	**	No	10	alo.	· NO	
6.21	8.94	3.81	6.45	4.19	4.69	3.14	3.55	
6.46	7.80	3.61	6.38	4.30	4.72	3.47	3.37	
7.03	8.80	4.20	7.48	4.28	4.61	3.45	3.49	
7.45	8.86	4.20	6.78	4.38	4.64	3.63	3.56	
6.21	7.80	3.73	6.09	4.25	4.64	3.34	3.45	
6.35	7.50	3.83	5.96	4.24	4.60	3.39	3.46	
6.85	8.60	4.16	7.14	4.56	4.73	3.63	3.57	
7.03	8.20	4.13	6.55	4.59	4.84	3.43	3.64	
6.14	7.42	3.69	5.53	4.25	4.56	3.43	3.55	
6.79	7.77	4.02	6.68	4.53	4.96	3.44	3.72)-2
7.00	8.30	4.20	6.79	4.57	4.62	3.43	3.58	Raw PLVs (×10 ⁻²)
6.07	9.82	3.89	6.36	4.41	4.66	3.52	3.71	×
6.61	8.91	3.71	7.12	4.18	4.77	3.24	3.30	S
7.02	9.37	4.07	7.41	4.29	4.55	3.43	3.38	
6.74	8.74	3.97	6.36	4.17	4.64	3.68	3.61	<u> </u>
6.91	8.33	4.13	7.28	4.48	4.78	3.57	3.54	 €
6.86	8.81	4.01	6.63	4.25	4.53	3.51	3.61	a
6.09	9.29	3.92	5.33	4.34	4.52	3.57	3.75	7 1
6.14	8.34	3.71	5.57	4.43	4.67	3.29	3.54	
6.17	8.02	3.68	5.72	4.31	4.64	3.41	3.47	
6.35	7.53	3.66	5.61	4.06	4.58	3.57	3.30	
6.56	8.67	3.99	7.06	4.33	4.82	3.45	3.52	
6.88	8.29	3.78	6.18	4.40	4.63	3.48	3.60	
6.97	8.43	4.20	7.09	4.61	4.43	3.47	3.56	
7.04	8.33	4.17	6.59	4.42	4.55	3.52	3.54	
7.11	8.26	4.17	6.78	4.27	4.59	3.59	3.45	
6.99	8.49	4.20	6.33	4.27	4.48	3.30	3.54]
	7.11 7.04 6.97 6.88 6.56 6.55 6.17 6.14 6.09 6.86 6.91 6.74 7.02 6.61 6.07 7.00 6.79 6.14 7.03 6.85 6.35 6.21	7.11 8.26 7.04 8.33 6.97 8.43 6.88 8.29 6.56 8.67 6.35 7.53 6.17 8.02 6.14 8.34 6.09 9.29 6.86 8.81 6.91 8.33 6.74 8.74 7.02 9.37 6.61 8.91 6.07 9.62 7.00 8.30 6.79 7.77 6.14 7.42 7.03 8.20 6.85 8.80 6.35 7.50 6.21 7.80 7.45 8.86 6.70 9.82	7.11 8.26 4.17 7.04 8.33 4.17 7.04 8.33 4.17 6.97 8.43 4.20 6.88 8.29 3.78 6.56 8.67 3.99 6.55 7.53 3.66 6.17 8.02 3.68 6.14 8.34 3.71 6.09 9.29 3.92 6.86 8.81 4.01 6.91 8.33 4.13 6.74 8.74 3.97 7.02 9.37 4.07 6.61 8.91 3.71 6.07 9.82 3.89 7.00 8.30 4.20 6.70 4.02 6.14 7.42 3.69 7.03 8.20 4.13 6.85 8.80 4.16 6.35 7.50 3.83 6.21 7.80 3.73 7.45 8.86 4.20 6.46 7.80 3.61 6.21 8.94 3.81	7.11 8.26 4.17 6.78 7.04 8.33 4.17 6.59 6.87 8.43 4.20 7.09 6.88 8.29 3.78 6.18 6.56 8.67 3.99 7.06 6.17 8.02 3.68 5.72 6.14 8.34 3.71 5.57 6.09 9.29 3.92 5.33 6.86 8.81 4.01 6.63 6.91 8.33 4.13 7.28 6.91 8.33 4.13 7.28 6.74 8.74 3.97 6.36 7.02 9.37 4.07 7.41 6.61 8.91 3.71 7.12 6.07 9.82 3.89 6.36 7.00 8.30 4.20 6.79 6.79 7.77 4.02 6.68 6.14 7.42 3.69 5.53 7.03 8.20 4.13 6.55 6.85 8.60 4.16 7.14 6.35 7.50 3.83 5.96 6.21 7.80 3.73 6.09 7.45 8.86 4.20 6.78 7.03 8.80 4.20 6.78 7.03 8.80 4.20 7.48 6.46 7.80 3.61 6.38 6.46 7.80 3.61 6.38	7.11 8.26 4.17 6.78 4.27 7.04 8.33 4.17 6.59 4.42 6.67 8.43 4.20 7.09 4.61 6.88 8.29 3.78 6.18 4.40 6.56 8.67 3.99 7.06 4.33 6.16 4.40 6.17 8.02 3.68 5.72 4.31 6.14 8.34 3.71 5.57 4.43 6.09 9.29 3.92 5.33 4.34 6.09 9.29 3.92 6.33 4.34 6.96 8.81 4.01 6.63 4.25 6.91 8.33 4.13 7.28 4.48 6.74 8.74 3.97 6.36 4.17 7.02 9.37 4.07 7.41 4.29 6.61 8.91 3.71 7.12 4.18 6.07 9.82 3.99 6.36 4.41 7.00 8.30 4.20 6.79 4.57 6.79 7.77 4.02 6.68 4.53 7.03 8.20 4.13 6.55 4.59 6.85 8.60 4.16 7.14 4.56 6.35 7.50 3.83 5.96 4.24 7.03 8.20 4.16 7.14 4.56 6.35 7.50 3.83 5.96 4.24 7.03 8.20 4.16 7.14 4.56 6.35 7.50 3.83 5.96 4.24 7.03 8.80 4.20 7.48 4.28 7.03 8.80 4.20 7.48 4.28 7.03 8.80 4.20 7.48 4.28 7.03 8.80 4.20 7.48 4.28 7.03 8.80 4.20 7.48 4.28 6.46 7.80 3.61 6.38 4.30 6.21 8.94 3.81 6.45 4.19	7.11 8.26 4.17 6.78 4.27 4.59 7.04 8.33 4.17 6.59 4.42 4.55 6.67 8.43 4.20 7.09 4.61 4.43 6.88 8.29 3.78 6.18 4.40 4.63 6.56 8.67 3.99 7.06 4.33 4.82 6.35 7.53 3.66 5.61 4.06 4.59 6.17 8.02 3.68 5.72 4.31 4.64 6.14 8.34 3.71 5.57 4.43 4.67 6.09 9.29 3.92 5.33 4.34 4.52 6.86 8.81 4.01 6.63 4.25 4.53 6.91 8.33 4.13 7.28 4.48 4.78 6.74 8.74 3.97 6.36 4.17 4.64 7.02 9.37 4.07 7.41 4.29 4.55 6.61 8.91 3.71	7.11 8.26 4.17 6.78 4.27 4.59 3.59 7.04 8.33 4.17 6.59 4.42 4.55 3.52 6.67 8.43 4.20 7.09 4.61 4.43 3.47 6.88 8.29 3.78 6.18 4.40 4.63 3.48 6.56 8.67 3.99 7.06 4.33 4.82 3.45 6.55 7.53 3.66 5.61 4.06 4.58 3.57 6.17 8.02 3.68 5.72 4.31 4.64 3.41 6.14 8.34 3.71 5.57 4.43 4.67 3.29 6.09 9.29 3.92 5.33 4.34 4.52 3.57 6.09 9.29 3.92 5.33 4.34 4.52 3.57 6.86 8.81 4.01 6.63 4.25 4.53 3.57 6.74 8.74 3.97 6.36 4.17 4.64	7.11 8.26 4.17 6.78 4.27 4.59 3.59 3.45 7.04 8.33 4.17 6.59 4.42 4.55 3.52 3.54 6.97 8.43 4.20 7.09 4.61 4.43 3.47 3.56 6.88 8.29 3.78 6.18 4.40 4.63 3.48 3.60 6.56 8.67 3.99 7.06 4.33 4.82 3.45 3.52 6.35 7.53 3.66 5.61 4.06 4.58 3.57 3.30 6.17 8.02 3.68 5.72 4.31 4.64 3.41 3.47 6.14 8.34 3.71 5.57 4.43 4.67 3.29 3.54 6.09 9.29 3.92 5.33 4.34 4.52 3.57 3.75 6.86 8.81 4.01 6.63 4.25 4.53 3.57 3.54 6.74 8.74 3.37 6.36

Supplementary Figure 7: Mean raw PLVs (averaged across conditions) obtained from the brain-audio envelope synchronization analysis in all the frequency bands. Each cell corresponds to a listener-speaker electrode pair. Rows are the electrodes and columns are the cases: Listener and the Speaker in each frequency band. Values are in scientific notation (i.e. $PLV \times 10^{-2}$).

Supplementary Video 1: Movie showing a 3D topographical representation of statistically significant enhanced alpha band interbrain synchronization patterns between listeners (blue head) and speakers (red head) during oral narratives. Green lines connect those electrode pairs showing an enhanced interbrain synchronization not explained by brain-audio envelope synchronizations.

Supplementary Video 2: Movie showing a 3D topographical representation of statistically significant enhanced beta band interbrain synchronization patterns between listeners (blue head) and speakers (red head) during oral narratives. Green lines connect those electrode pairs showing an enhanced interbrain synchronization not explained by brain-audio envelope synchronizations.