Supplementary materials

Supplementary Table 1. Correlations of musical features between concerts.
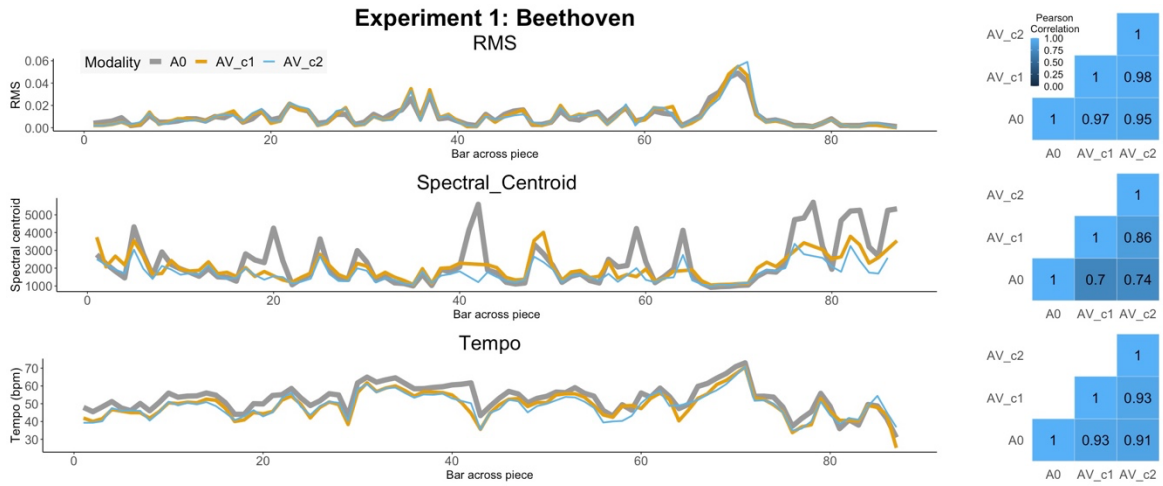
Experiment 1				
Feature	Piece	R: C1-C2 (p)	R: C1-AO (p)	R: C2-AO (p)
RMS	Bach	0.9185 ($p < .001$)	0.8229 ($p < .001$)	0.8539 ($p < .001$)
	Beet	0.9777 ($p < .001$)	0.9738 ($p < .001$)	0.9537 ($p < .001$)
	Mess	0.8813 ($p < .001$)	0.8028 ($p < .001$)	0.8196 ($p < .001$)
Spectral Centroid	Bach	0.8160 ($p < .001$)	0.7845 ($p < .001$)	0.6093 ($p < .001$)
	Beet	0.8568 ($p < .001$)	0.7033 ($p < .001$)	0.7400 ($p < .001$)
	Mess	0.8869 ($p < .001$)	0.8127 ($p < .001$)	0.7751 ($p < .001$)
Tempo	Bach	0.9195 ($p < .001$)	0.8496 ($p < .001$)	0.8316 ($p < .001$)
	Beet	0.9328 ($p < .001$)	0.9292 ($p < .001$)	0.9136 ($p < .001$)
	Mess	0.8861 ($p < .001$)	0.8883 ($p < .001$)	0.9283 ($p < .001$)
Experiment 2				
Feature	Piece	R: C3-C4 (p)	R: C3-AO (p)	R: C4-AO (p)
RMS	Bach	0.9498 ($p < .001$)	0.8976 ($p < .001$)	0.8969 ($p < .001$)
	Beet	0.9898 ($p < .001$)	0.9793($p < .001$)	0.9844 ($p < .001$)
	Mess	0.9574 ($p < .001$)	0.9211 ($p < .001$)	0.9194 ($p < .001$)
Spectral Centroid	Bach	0.9539 ($p < .001$)	0.6171 ($p < .001$)	0.6415 ($p < .001$)
	Beet	0.8931 ($p < .001$)	0.8512 ($p < .001$)	0.8200 ($p < .001$)
	Mess	0.9222 ($p < .001$)	0.9038 ($p < .001$)	0.8805 ($p < .001$)
Tempo	Bach	0.9337 ($p < .001$)	0.9495 ($p < .001$)	0.9583 ($p < .001$)
	Beet	0.9713 ($p < .001$)	0.9590 ($p < .001$)	0.9706 ($p < .001$)
	Mess	0.9815 ($p < .001$)	0.9597 ($p < .001$)	0.9706 ($p < .001$)

Supplementary Table 2. Information and bar numbers of sections that pieces were divided into, driven by the musical structure

Piece	Section	Bar corresponding to music	Bars corresponding to acoustic and physiological signal (i.e., considering repeats)	Approximate length in time (seconds)
Bach	1	Prelude: 1-16	1-16	44
	2	Prelude: Repeat of bars 1-16	17-32	45
	3	Prelude: 17-40	33-56	68
	4	Prelude: 41 - 56	57-72	45
	5	Prelude: Repeat of bars 17-40	73-96	68
	6	Prelude: Repeat of bars 41-56	97-112	51
	7	Fugue: 1-50	113-162	137
Beethoven	1	1-8	1-8	60
	2	9-16	9-16	46
	3	17-25	17-25	64
	4	26-29	26-29	27
	5	30-43	30-43	42
	6	44-55	44-55	42
	7	56-64	56-64	81
	8	65-75	65-63	64
	9	76-87	76-87	68
Messiaen	1	1-32	1-32	60
	2	33-40	33-40	41
	3	41-59	41-59	37
	4	60-131	60-131	142
	5	132-143	132-143	68
	6	144-174	144-174	43
	7	175-184	175-184	55
	8	185-216	185-216	64
	9	217-231	217-231	49
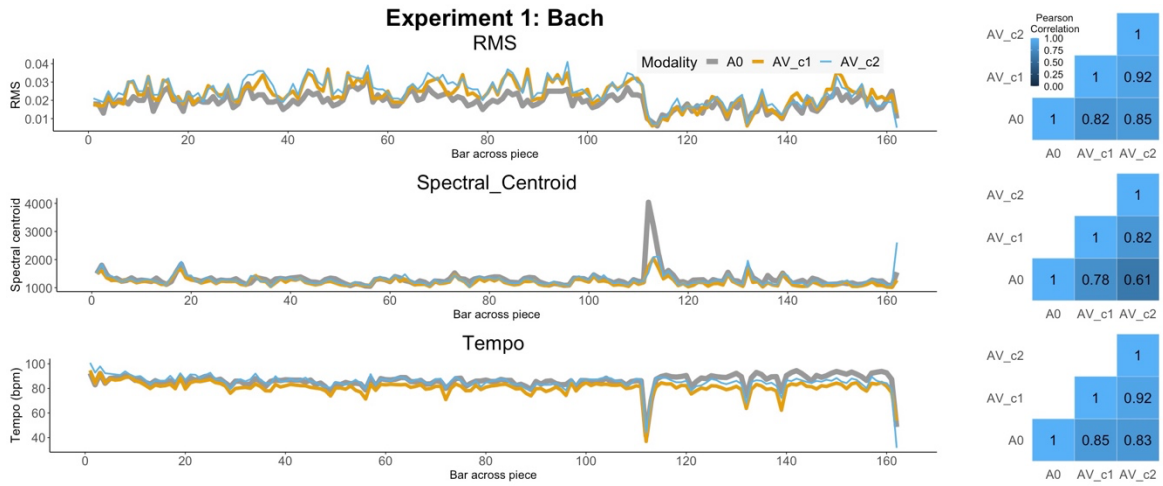
Supplementary Figure 1. Experiment 1, Bach piece: time series (left panels) and correlation matrices (right panels) of RMS, spectral centroid, and tempo (different rows) in AO and AV performances from concert 1 and 2.

Supplementary Figure 2. Experiment 1, Beethoven piece: time series (left panels) and correlation matrices (right panels) of RMS, spectral centroid, and tempo (different rows) in AO and AV performances from concert 1 and 2.
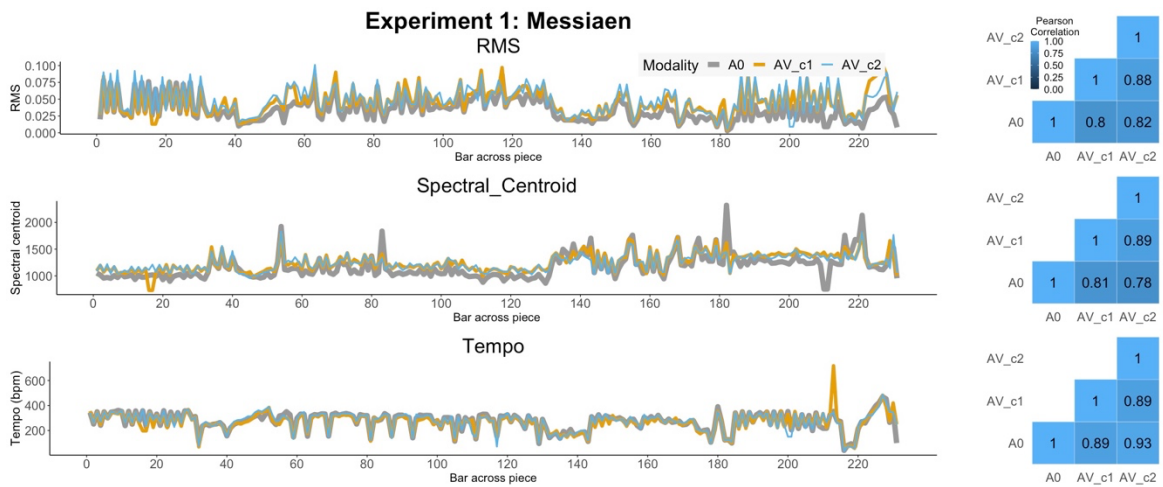
Supplementary Figure 3. Experiment 1, Messiaen piece: time series (left panels) and correlation matrices (right panels) of RMS, spectral centroid, and tempo (different rows) in AO and AV performances from concert 1 and 2.
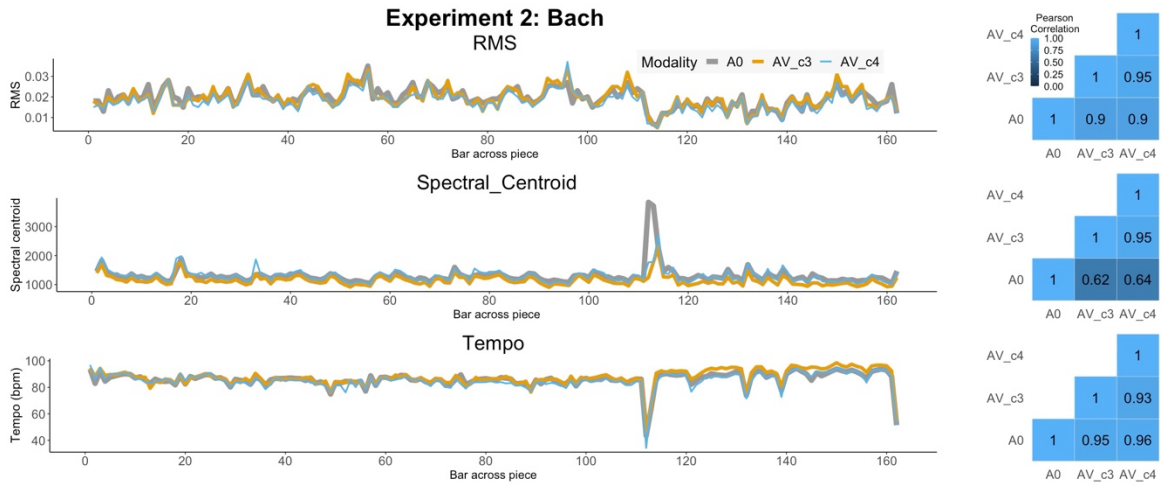
Supplementary Figure 4. Experiment 2, Bach piece: time series (left panels) and correlation matrices (right panels) of RMS, spectral centroid, and tempo (different rows) in AO and AV performances from concert 3 and 4.

Supplementary Figure 5. Experiment 2, Beethoven piece: time series (left panels) and correlation matrices (right panels) of RMS, spectral centroid, and tempo (different rows) in AO and AV performances from concert 3 and 4.

Supplementary Figure 6. Experiment 2, Messiaen piece: time series (left panels) and correlation matrices (right panels) of RMS, spectral centroid, and tempo (different rows) in AO and AV performances from concert 3 and 4.
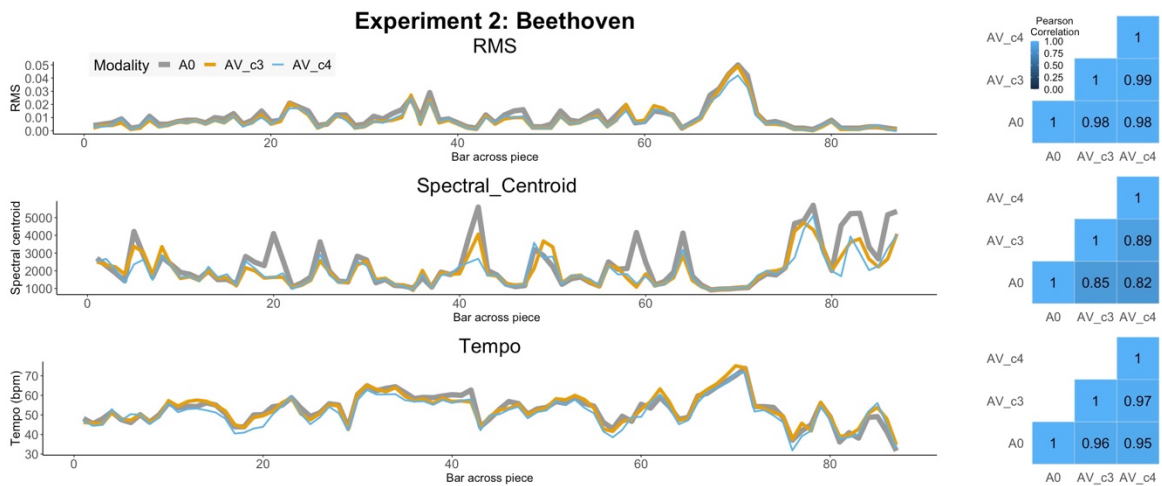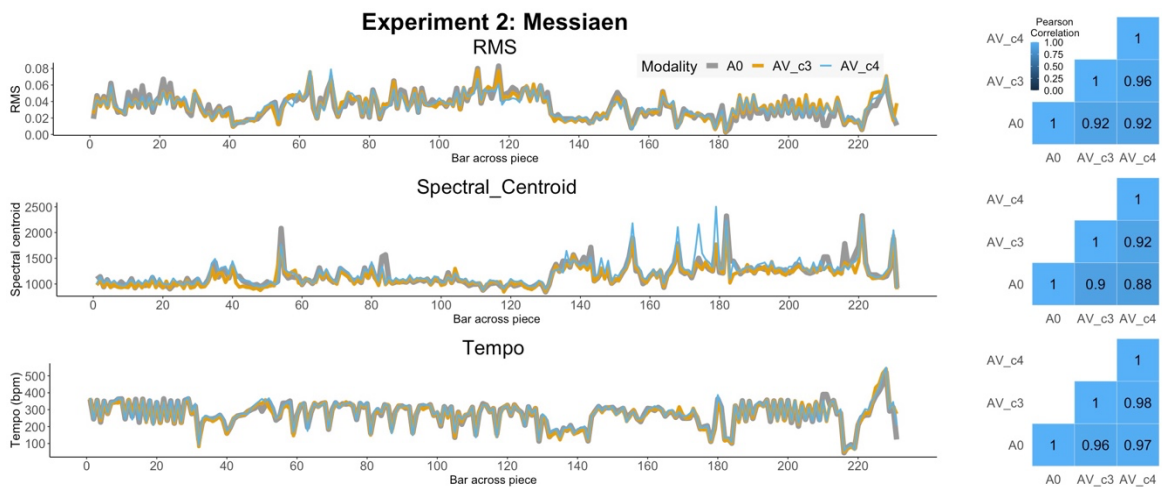
Supplementary Table 3. Linear mixed models for aesthetic experience factor in Experiment 1: maximal and simplified random structure models, until no error is generated.

LMM comparison for AE: Experiment 1

Predictors	Maximal model (singularity error)			Constrained covariance parameters (singularity error)			Without slope (singularity error)		
	Estimates	CI	p	Estimates	CI	p	Estimates	CI	p
(Intercept)	-0.10	-0.69 – 0.49	0.733	-0.10	-0.69 – 0.49	0.733	-0.10	-0.69 – 0.48	0.733
cond [AV]	0.29	0.05 – 0.52	**0.018**	0.29	0.05 – 0.52	**0.018**	0.29	0.05 – 0.52	**0.018**

Random Effects

σ^2	0.55			0.55			0.55		
τ_{00}	0.04 id_n:concert			0.04 id_n:concert			0.04 id_n:concert		
	0.24 piece			0.24 piece			0.24 piece		
	0.00 concert			0.00 concert			0.00 concert		
τ_{11}	0.00 id_n.condAV			0.00 id_n.condAV					
	0.00 id_n1.condAO			0.00 id_n1.condAO					
	0.00 id_n2.condAV			0.00 id_n2.condAV					
ρ_{01}									
ρ_{01}									
N	2 concert			2 concert			2 concert		
	3 piece			3 piece			3 piece		
	15 id_n			15 id_n			15 id_n		
Observations	153			153			153		
Marginal R2 / Conditional R2	0.037 / NA			0.037 / NA			0.037 / NA		
AIC	379.967			379.967			373.967		

LMM comparison for AE: Experiment 1 (continued)

Predictors	Without concert intercept (singularity error)			Without slope nor concert intercept (no error)		
	Estimates	CI	p	Estimates	CI	p
(Intercept)	-0.10	-0.69 – 0.48	0.733	-0.10	-0.69 – 0.48	0.733
cond [AV]	0.29	0.05 – 0.52	**0.018**	0.29	0.05 – 0.52	**0.018**

Random Effects

σ^2	0.55			0.55		
τ_{00}	0.04 id_n:concert			0.04 id_n:concert		
	0.24 piece			0.24 piece		
τ_{11}	0.00 id_n.condAV					
	0.00 id_n1.condAO					
	0.00 id_n2.condAV					
ρ_{01}						
ρ_{01}						
ICC				0.34		
N	3 piece			3 piece		
	15 id_n			15 id_n		
	2 concert			2 concert		
Observations	153			153		
Marginal R2 / Conditional R2	0.037 / NA			0.024 / 0.355		
AIC	377.967			371.967		

Supplementary Table 4. Linear mixed models for aesthetic experience factor in Experiment 2: maximal and simplified random structure models, until no error is generated.

LMM comparison for AE: Experiment 2

Predictors	Maximal model (singularity error)			Constrained covariance parameters (singularity error)			Without slope (singularity error)		
	Estimates	CI	p	Estimates	CI	p	Estimates	CI	p
(Intercept)	0.00	-0.45 – 0.46	0.987	0.00	-0.45 – 0.46	0.987	0.00	-0.45 – 0.46	0.987
cond [AV]	0.22	0.01 – 0.43	**0.040**	0.22	0.01 – 0.43	**0.040**	0.22	0.01 – 0.43	**0.040**

Random Effects

σ^2	0.40			0.40			0.40		
τ_{00}	0.15 $_{id\_n:concert}$			0.15 $_{id\_n:concert}$			0.16 $_{id\_n:concert}$		
	0.00 $_{piece}$			0.00 $_{piece}$			0.00 $_{piece}$		
	0.08 $_{concert}$			0.08 $_{concert}$			0.08 $_{concert}$		
τ_{11}	0.00 $_{id\_n1.condAO}$			0.00 $_{id\_n1.condAO}$					
	0.00 $_{id\_n2.condAV}$			0.00 $_{id\_n2.condAV}$					
ρ_{01}									
ρ_{01}									
N	2 $_{concert}$			2 $_{concert}$			2 $_{concert}$		
	3 $_{piece}$			3 $_{piece}$			3 $_{piece}$		
	16 $_{id\_n}$			16 $_{id\_n}$			16 $_{id\_n}$		
Observations	145			145			145		
Marginal R^2 / Conditional R^2	0.029 / NA			0.029 / NA			0.029 / NA		
AIC	332.563			332.563			326.565		

LMM comparison for AE: Experiment 2 (continued)

Predictors	Without piece intercept (singularity error)			Without slope nor piece intercept (no error)		
	Estimates	CI	p	Estimates	CI	p
(Intercept)	0.00	-0.45 – 0.46	0.987	0.00	-0.45 – 0.46	0.987
cond [AV]	0.22	0.01 – 0.43	**0.040**	0.22	0.01 – 0.43	**0.040**

Random Effects

σ^2	0.40			0.40		
τ_{00}	0.16 $_{id\_n:concert}$			0.16 $_{id\_n:concert}$		
	0.08 $_{concert}$			0.08 $_{concert}$		
τ_{11}	0.00 $_{id\_n.condAV}$					
	0.00 $_{id\_n1.condAO}$					
	0.00 $_{id\_n2.condAV}$					
ρ_{01}						
ρ_{01}						
ICC				0.37		
N	2 $_{concert}$			2 $_{concert}$		
	16 $_{id\_n}$			16 $_{id\_n}$		
Observations	145			145		
Marginal R^2 / Conditional R^2	0.029 / NA			0.019 / 0.383		
AIC	330.565			324.565		

Supplementary Table 5. Linear mixed models for EMGCS (Corrugator facial muscle activity) in Experiment 2: maximal and simplified random structure models, until no error is generated.

LMM comparison for EMGCS: Experiment 2

Predictors	Maximal model (singularity error)			Constrained covariance parameters (error)			Without slope (error)		
	Estimates	CI	p	Estimates	CI	p	Estimates	CI	p
(Intercept)	0.0025	0.0020 – 0.0030	**<0.001**	0.0025	0.0020 – 0.0030	**<0.001**	0.0025	0.0021 – 0.0029	**<0.001**
cond [AV]	0.0002	-0.0000 – 0.0004	0.098	0.0002	-0.0000 – 0.0004	0.098	0.0002	0.0001 – 0.0003	**<0.001**

Random Effects

σ^2	0.00			0.00			0.00		
τ_{00}	0.00 section:piece			0.00 section:piece			0.00 section:piece		
	0.00 id_n:concert			0.00 id_n:concert			0.00 id_n:concert		
	0.00 concert			0.00 concert			0.00 concert		
τ_{11}	0.00 id_n.condAV			0.00 id_n.condAV					
	0.00 id_n1.condAO			0.00 id_n1.condAO					
	0.00 id_n2.condAV			0.00 id_n2.condAV					
ρ_{01}									
ρ_{01}									
ICC	0.61			0.61			0.65		
N	2 concert			2 concert			2 concert		
	9 section			9 section			9 section		
	3 piece			3 piece			3 piece		
	15 id_n			15 id_n			15 id_n		
Observations	1037			1037			1037		
Marginal R2 / Conditional R2	0.010 / 0.617			0.010 / 0.617			0.007 / 0.657		
AIC	-12173.674			-12173.674			-12108.532		

LMM comparison for EMGCS: Experiment 2 (continued)

Predictors	Without concert intercept (error)			Without slope nor concert intercept (no error)		
	Estimates	CI	p	Estimates	CI	p
(Intercept)	0.0025	0.0020 – 0.0030	**<0.001**	0.0025	0.0021 – 0.0029	**<0.001**
cond [AV]	0.0002	-0.0000 – 0.0004	0.098	0.0002	0.0001 – 0.0003	**<0.001**

Random Effects

σ^2	0.00			0.00		
τ_{00}	0.00 section:piece			0.00 section:piece		
	0.00 id_n:concert			0.00 id_n:concert		
τ_{11}	0.00 id_n.condAV					
	0.00 id_n1.condAO					
	0.00 id_n2.condAV					
ρ_{01}						
ρ_{01}						
ICC	0.61			0.65		
N	9 section			9 section		
	3 piece			3 piece		
	15 id_n			15 id_n		
	2 concert			2 concert		
Observations	1037			1037		
Marginal R2 / Conditional R2	0.010 / 0.618			0.007 / 0.657		
AIC	-12175.674			-12110.532		

Supplementary Table 6. Linear mixed models for EMGZM (Zygomaticus facial muscle activity) in Experiment 2: maximal and simplified random structure models, until no error is generated.

LMM comparison for EMGZM: Experiment 2

Predictors	Maximal model (singularity error)			Constrained covariance parameters (error)		
	Estimates	CI	p	Estimates	CI	p
(Intercept)	0.0022	0.0019 – 0.0024	**<0.001**	0.0022	0.0019 – 0.0024	**<0.001**
cond [AV]	0.0001	-0.0000 – 0.0002	0.180	0.0001	-0.0000 – 0.0002	0.180

Random Effects

σ^2	0.00	0.00
τ_{00}	0.00 section:piece	0.00 section:piece
	0.00 id_n:concert	0.00 id_n:concert
	0.00 concert	0.00 concert
τ_{11}	0.00 id_n.condAV	0.00 id_n.condAV
	0.00 id_n1.condAO	0.00 id_n1.condAO
	0.00 id_n2.condAV	0.00 id_n2.condAV
ρ_{01}		
ρ_{01}		
N	2 concert	2 concert
	9 section	9 section
	3 piece	3 piece
	14 id_n	14 id_n
Observations	1082	1082
Marginal R2 / Conditional R2	0.006 / NA	0.006 / NA
AIC	-12780.993	-12780.993

LMM comparison for EMGZM: Experiment 2 (continued)

Predictors	Without slope (error)			Without concert intercept (no error)		
	Estimates	CI	p	Estimates	CI	p
(Intercept)	0.0022	0.0019 – 0.0024	**<0.001**	0.0022	0.0019 – 0.0024	**<0.001**
cond [AV]	0.0001	-0.0000 – 0.0001	0.052	0.0001	-0.0000 – 0.0002	0.180

Random Effects

σ^2	0.00	0.00
τ_{00}	0.00 section:piece	0.00 section:piece
	0.00 id_n:concert	0.00 id_n:concert
	0.00 concert	
τ_{11}		0.00 id_n.condAV
		0.00 id_n1.condAO
		0.00 id_n2.condAV
ρ_{01}		
ρ_{01}		
ICC	0.50	0.50
N	2 concert	9 section
	9 section	3 piece
	3 piece	14 id_n
	14 id_n	2 concert
Observations	1082	1082
Marginal R2 / Conditional R2	0.002 / 0.506	0.003 / 0.502
AIC	-12771.767	-12782.993

Supplementary Table 7. Linear mixed models for High Frequency power in heart rate variability (HF) in Experiment 2: maximal and simplified random structure models, until no error is generated.

LMM comparison for HF: Experiment 2

Predictors	Maximal model (singularity error)			Constrained covariance parameters (error)		
	Estimates	CI	p	Estimates	CI	p
(Intercept)	0.1384	0.1147 – 0.1621	**<0.001**	0.1384	0.1147 – 0.1621	**<0.001**
cond [AV]	0.0044	-0.0069 – 0.0157	0.447	0.0044	-0.0069 – 0.0157	0.447

Random Effects

σ^2	0.00	0.00
τ_{00}	0.00 $_{section:piece}$	0.00 $_{section:piece}$
	0.00 $_{id\_n:concert}$	0.00 $_{id\_n:concert}$
	0.00 $_{concert}$	0.00 $_{concert}$
τ_{11}	0.00 $_{id\_n1.condAO}$	0.00 $_{id\_n1.condAO}$
	0.00 $_{id\_n2.condAV}$	0.00 $_{id\_n2.condAV}$
ρ_{01}		
ρ_{01}		
ICC	0.47	0.47
N	2 $_{concert}$	2 $_{concert}$
	9 $_{section}$	9 $_{section}$
	3 $_{piece}$	3 $_{piece}$
	15 $_{id\_n}$	15 $_{id\_n}$
Observations	1050	1050
Marginal R^2 / Conditional R^2	0.001 / 0.467	0.001 / 0.467
AIC	-2839.267	-2839.267

LMM comparison for HF: Experiment 2 (continued)

Predictors	Without slope (error)			Without concert intercept (no error)		
	Estimates	CI	p	Estimates	CI	p
(Intercept)	0.1394	0.1160 – 0.1628	**<0.001**	0.1384	0.1147 – 0.1621	**<0.001**
cond [AV]	0.0068	-0.0004 – 0.0139	0.066	0.0044	-0.0069 – 0.0157	0.447

Random Effects

σ^2	0.00	0.00
τ_{00}	0.00 $_{section:piece}$	0.00 $_{section:piece}$
	0.00 $_{id\_n:concert}$	0.00 $_{id\_n:concert}$
	0.00 $_{concert}$	
τ_{11}		0.00 $_{id\_n1.condAO}$
		0.00 $_{id\_n2.condAV}$
ρ_{01}		
ρ_{01}		
ICC		0.47
N	2 $_{concert}$	9 $_{section}$
	9 $_{section}$	3 $_{piece}$
	3 $_{piece}$	15 $_{id\_n}$
	15 $_{id\_n}$	2 $_{concert}$
Observations	1050	1050
Marginal R^2 / Conditional R^2	0.003 / NA	0.001 / 0.467
AIC	-2837.652	-2841.267

Supplementary Table 8. Linear mixed models for Low Frequency / High Frequency ratio (LF/HF ratio) in heart rate variability in Experiment 2: maximal and simplified random structure models, until no error is generated.

LMM comparison for LFHF ratio: Experiment 2

Predictors	Maximal model (singularity error)			Constrained covariance parameters (error)			Without slope (error)		
	Estimates	CI	p	Estimates	CI	p	Estimates	CI	p
(Intercept)	2.1904	1.7790 – 2.6017	**<0.001**	2.1904	1.7790 – 2.6017	**<0.001**	2.1926	1.7794 – 2.6059	**<0.001**
cond [AV]	-0.2396	-0.4304 – -0.0488	**0.014**	-0.2396	-0.4304 – -0.0488	**0.014**	-0.2604	-0.4116 – -0.1093	**0.001**

Random Effects

σ^2	1.51			1.51		1.52
τ_{00}	0.00 section:piece			0.00 section:piece		0.00 section:piece
	0.94 id_n:concert			0.94 id_n:concert		0.95 id_n:concert
	0.00 concert			0.00 concert		0.00 concert
τ_{11}	0.00 id_n1.condAO			0.00 id_n1.condAO		
	0.04 id_n2.condAV			0.04 id_n2.condAV		
ρ_{01}						
ρ_{01}						
ICC	0.39			0.39		0.38
N	2 concert			2 concert		2 concert
	9 section			9 section		9 section
	3 piece			3 piece		3 piece
	15 id_n			15 id_n		15 id_n
Observations	1041			1041		1041
Marginal R^2 / Conditional R^2	0.006 / 0.392			0.006 / 0.392		0.007 / 0.389
AIC	3489.670			3489.670		3485.161

LMM comparison for LFHF ratio: Experiment 2 (continued)

Predictors	Without concert intercept (error)			Without slope nor concert intercept (no error)		
	Estimates	CI	p	Estimates	CI	p
(Intercept)	2.1903	1.7792 – 2.6015	**<0.001**	2.1926	1.7794 – 2.6059	**<0.001**
cond [AV]	-0.2396	-0.4304 – -0.0488	**0.014**	-0.2604	-0.4116 – -0.1093	**0.001**

Random Effects

σ^2	1.51	1.52
τ_{00}	0.00 section:piece	0.00 section:piece
	0.94 id_n:concert	0.95 id_n:concert
τ_{11}	0.00 id_n1.condAO	
	0.04 id_n2.condAV	
ρ_{01}		
ρ_{01}		
ICC	0.39	0.38
N	9 section	9 section
	3 piece	3 piece
	15 id_n	15 id_n
	2 concert	2 concert
Observations	1041	1041
Marginal R^2 / Conditional R^2	0.006 / 0.392	0.007 / 0.389
AIC	3487.670	3483.161

Supplementary Table 9. Linear mixed models for heart rate (HR) in Experiment 2: maximal and simplified random structure models, until no error is generated.

LMM comparison for HR: Experiment 2

Predictors	Maximal model (error)			Constrained covariance parameters (error)			Without slope (no error)		
	Estimates	CI	p	Estimates	CI	p	Estimates	CI	p
(Intercept)	62.0143	54.3396 – 69.6890	<0.001	62.0143	54.3396 – 69.6890	<0.001	61.9969	54.9576 – 69.0361	<0.001
cond [AV]	-0.2951	-1.2997 – 0.7094	0.564	-0.2951	-1.2997 – 0.7094	0.564	-0.1932	-0.4390 – 0.0527	0.123

Random Effects

σ^2	3.46			3.46			4.16		
τ_{00}	0.13 $_{section:piece}$			0.13 $_{section:piece}$			0.11 $_{section:piece}$		
	65.05 $_{id\_n:concert}$			65.05 $_{id\_n:concert}$			65.70 $_{id\_n:concert}$		
	24.91 $_{concert}$			24.91 $_{concert}$			19.99 $_{concert}$		
τ_{11}	0.00 $_{id\_n1.condAO}$			0.00 $_{id\_n1.condAO}$					
	3.72 $_{id\_n2.condAV}$			3.72 $_{id\_n2.condAV}$					
ρ_{01}									
ρ_{01}									
ICC							0.95		
N	2 $_{concert}$			2 $_{concert}$			2 $_{concert}$		
	9 $_{section}$			9 $_{section}$			9 $_{section}$		
	3 $_{piece}$			3 $_{piece}$			3 $_{piece}$		
	15 $_{id\_n}$			15 $_{id\_n}$			15 $_{id\_n}$		
Observations	1073			1073			1073		
Marginal R^2 / Conditional R^2	0.006 / NA			0.006 / NA			0.000 / 0.954		
AIC	4613.406			4613.406			4754.982		

Supplementary Table 10. Linear mixed models for respiration rate (RR) in Experiment 2: maximal and simplified random structure models, until no error is generated.

LMM comparison for RR: Experiment 2

Predictors	Maximal model (singularity error)			Constrained covariance parameters (error)			Without slope (no error)		
	Estimates	CI	p	Estimates	CI	p	Estimates	CI	p
(Intercept)	18.2917	17.0021 – 19.5814	<0.001	18.2917	17.0021 – 19.5814	<0.001	18.3133	17.1729 – 19.4537	<0.001
cond [AV]	0.2274	-0.1377 – 0.5925	0.222	0.2274	-0.1377 – 0.5925	0.222	0.2570	0.0873 – 0.4266	0.003

Random Effects

σ^2	2.03			2.03			2.11		
τ_{00}	0.31 $_{section:piece}$			0.31 $_{section:piece}$			0.30 $_{section:piece}$		
	4.71 $_{id\_n:concert}$			4.71 $_{id\_n:concert}$			6.71 $_{id\_n:concert}$		
	0.00 $_{concert}$			0.00 $_{concert}$			0.08 $_{concert}$		
τ_{11}	3.17 $_{id\_n1.condAO}$			3.17 $_{id\_n1.condAO}$					
	2.04 $_{id\_n2.condAV}$			2.04 $_{id\_n2.condAV}$					
ρ_{01}									
ρ_{01}									
ICC	0.75			0.75			0.77		
N	2 $_{concert}$			2 $_{concert}$			2 $_{concert}$		
	9 $_{section}$			9 $_{section}$			9 $_{section}$		
	3 $_{piece}$			3 $_{piece}$			3 $_{piece}$		
	15 $_{id\_n}$			15 $_{id\_n}$			15 $_{id\_n}$		
Observations	1152			1152			1152		
Marginal R^2 / Conditional R^2	0.002 / 0.749			0.002 / 0.749			0.002 / 0.771		
AIC	4294.608			4294.608			4312.895		

Supplementary Table 11. Linear mixed models for skin conductance response (SCR) in Experiment 2: maximal and simplified random structure models, until no error is generated.

LMM comparison for SCR: Experiment 2

Predictors	Maximal model (singularity error)			Constrained covariance parameters (error)			Without slope (error)		
	Estimates	CI	p	Estimates	CI	p	Estimates	CI	p
(Intercept)	-0.0019	-0.0045 – 0.0007	0.156	-0.0019	-0.0045 – 0.0007	0.156	-0.0019	-0.0045 – 0.0007	0.156
cond [AV]	-0.0002	-0.0016 – 0.0012	0.754	-0.0002	-0.0016 – 0.0012	0.754	-0.0002	-0.0016 – 0.0012	0.754

Random Effects

σ^2	0.00			0.00			0.00		
τ_{00}	0.00 section:piece			0.00 section:piece			0.00 section:piece		
	0.00 id_n:concert			0.00 id_n:concert			0.00 id_n:concert		
	0.00 concert			0.00 concert			0.00 concert		
τ_{11}	0.00 id_n.condAV			0.00 id_n.condAV					
	0.00 id_n1.condAO			0.00 id_n1.condAO					
	0.00 id_n2.condAV			0.00 id_n2.condAV					
ρ_{01}									
ρ_{01}									
N	2 concert			2 concert			2 concert		
	9 section			9 section			9 section		
	3 piece			3 piece			3 piece		
	14 id_n			14 id_n			14 id_n		
Observations	855			855			855		
Marginal R^2 / Conditional R^2	0.000 / NA			0.000 / NA			0.000 / NA		
AIC	-5275.751			-5275.751			-5281.751		

LMM comparison for SCR: Experiment 2 (continued)

Predictors	Without concert intercept (error)			Without slope nor concert intercept (no error)		
	Estimates	CI	p	Estimates	CI	p
(Intercept)	-0.0019	-0.0045 – 0.0007	0.156	-0.0019	-0.0045 – 0.0007	0.156
cond [AV]	-0.0002	-0.0016 – 0.0012	0.754	-0.0002	-0.0016 – 0.0012	0.754

Random Effects

σ^2	0.00			0.00		
τ_{00}	0.00 section:piece			0.00 section:piece		
	0.00 id_n:concert			0.00 id_n:concert		
τ_{11}	0.00 id_n.condAV					
	0.00 id_n1.condAO					
	0.00 id_n2.condAV					
ρ_{01}						
ρ_{01}						
ICC				0.25		
N	9 section			9 section		
	3 piece			3 piece		
	14 id_n			14 id_n		
	2 concert			2 concert		
Observations	855			855		
Marginal R^2 / Conditional R^2	0.000 / NA			0.000 / 0.252		
AIC	-5277.751			-5283.751		

LMM comparison for SCL: Experiment 2

	Maximal model (singularity error)			Constrained covariance parameters (error)			Without slope (error)		
Predictors	Estimates	CI	p	Estimates	CI	p	Estimates	CI	p
(Intercept)	0.0005	-0.0247 – 0.0257	0.970	0.0005	-0.0247 – 0.0257	0.970	0.0005	-0.0247 – 0.0257	0.970
cond [AV]	0.0022	-0.0124 – 0.0168	0.764	0.0022	-0.0124 – 0.0168	0.764	0.0022	-0.0124 – 0.0168	0.764

Random Effects

σ^2	0.01	0.01	0.01
τ_{00}	0.00 section:piece	0.00 section:piece	0.00 section:piece
	0.00 id_n:concert	0.00 id_n:concert	0.00 id_n:concert
	0.00 concert	0.00 concert	0.00 concert
τ_{11}	0.00 id_n.condAV	0.00 id_n.condAV	
	0.00 id_n1.condAO	0.00 id_n1.condAO	
	0.00 id_n2.condAV	0.00 id_n2.condAV	
ρ_{01}			
ρ_{01}			
N	2 concert	2 concert	2 concert
	9 section	9 section	9 section
	3 piece	3 piece	3 piece
	14 id_n	14 id_n	14 id_n
Observations	910	910	910
Marginal R2 / Conditional R2	0.000 / NA	0.000 / NA	0.000 / NA
AIC	-1312.587	-1312.587	-1318.587

LMM comparison for SCL: Experiment 2 (continued)

	Without concert intercept (error)			Without slope nor concert intercept (error)			Without slope nor concert and id intercept (no error)		
Predictors	Estimates	CI	p	Estimates	CI	p	Estimates	CI	p
(Intercept)	0.0005	-0.0247 – 0.0257	0.970	0.0005	-0.0247 – 0.0257	0.970	0.0005	-0.0247 – 0.0257	0.970
cond [AV]	0.0022	-0.0124 – 0.0168	0.764	0.0022	-0.0124 – 0.0168	0.764	0.0022	-0.0124 – 0.0168	0.764

Random Effects

σ^2	0.01	0.01	0.01
τ_{00}	0.00 section:piece	0.00 section:piece	0.00 section:piece
	0.00 id_n:concert	0.00 id_n:concert	
τ_{11}	0.00 id_n.condAV		
	0.00 id_n1.condAO		
	0.00 id_n2.condAV		
ρ_{01}			
ρ_{01}			
ICC			0.21
N	9 section	9 section	9 section
	3 piece	3 piece	3 piece
	14 id_n	14 id_n	
	2 concert	2 concert	
Observations	910	910	910
Marginal R2 / Conditional R2	0.000 / NA	0.000 / NA	0.000 / 0.213
AIC	-1314.587	-1320.587	-1322.587

Questionnaire items (translated from German into English)

0.1 Please state your age:

0.2 Please state your gender: 1. female; 2. male; 3. other

0.3 Please state your highest level of education:

      1. Secondary school leaving certificate / Mittlere Reife

      2. (Technical) Baccalaureate

      3. Vocational training

      4. College or university degree

      5. not specified

0.4 How many years of instrumental lessons (including singing) have you had in your life? _____ years

0.5 Do you sing? (yes/no)

0.6 Do you play an instrument? (yes/no)

0.7 I would describe myself as a musician (1. do not agree to 7. Completely agree).

0.8 How many concerts/ live musical events have you attended within the last twelve months?

0.9 What kind of concerts/ live musical events do you attend most often? (rock/pop, classical, club/disco, jazz, contemporary, musical, opera, church, other).

1.1. Please answer the following questions

      1.1.1   How much did you like the piece? (1-7)

      1.1.2   How much did you like the interpretation? (1-7)

      1.1.3   How familiar are you with this style of music that you have just heard? (1-7)

      1.1.4   Do you know the piece? (yes/no)

1.2   To what extent do the following phrases apply to you?

      1.2.1   I felt the need to move (1-7)

      1.2.2   I tried to understand what was happening in the music (1-7)

      1.2.3   I felt a connection to the musicians (1-7)

      1.2.4   I was completely immersed in the music (1-7)

      1.2.5   I felt connected to the other audience members (listeners) (1-7)

      1.2.6   I was simply let the music affect me (passively receiving the music) (1-7)

      1.2.7   I felt distracted by the measuring equipment (1-7)

1.3   Any other comments?