		Staff member Erlangen 36 months	Staff member Ilmenau 36 months	Work Packages		
1. Year	01-04	WE1	WI1	**[WE1]** Hierarchical singing voice detection		**[WI1]** Detection of foreground and background sound events
	05-08	WE2	WI2	**[WE2]** Cross-version sound activity detection for music	**[WJ1]** Holistic view on representation learning	**[WI2]** Polyphony and instrument density estimation
	09-12					
2. Year	01-04	WE3	WI3	**[WE3]** Representation learning for music structure analysis		**[WI3]** Domain shift compensation for environmental SED
	05-08				**[WJ2]** Holistic view on hierarchical approaches	
	09-12	WE4	WI4	**[WE4]** Musically informed data augmentation		**[WI4]** Sound hierarchies for acoustic scene understanding
3. Year	01-04	WE5	WI5		**[WJ3]** Holistic view on data and model understanding	
	05-08			**[WE5]** Hierarchical instrument classification		**[WI5]** Representation learning for repeated sound events
	09-12					

WJ1 WJ2 WJ3

		Staff member Erlangen 36 months	Staff member Ilmenau 36 months	Work Packages		
1. Year	**01-04**	**WE1**	**WI1**	**(WE1)** Salience-Based Predominant Voice Detection	**(WA1)** Data Annotation and Augmentation	**(WI1)** Note-Based Sound Event Detection
	05-08		**WA1**			
	09-12	**WE2**	**WI2**	**(WE2)** Pattern-Based Detection of Sound Events	**(WA2)** Solo Activity Detection for Jazz Recordings	**(WI2)** Timbre Modeling
2. Year	**01-04**	**WE3**	**WI3**	**(WE3)** Data-Driven Singing Voice and Solo Activity Detection		**(WI3)** Instrument Recognition for Monotimbral Sections
	05-08		**WA2** / **WA3**		**(WA3)** Singing Voice Detection for Opera Recordings	
	09-12	**WE4**	**WI4**	**(WE4)** Homogeneity-Based Audio Segmentation		**(WI4)** Aggregation and Fusion Techniques
3. Year	**01-04**	**WE5**	**WI5**		**(WA4)** Instrument (Family) Recognition for Classical Music	
	05-08		**WA4**	**(WE5)** Repetition-Based Event Detection		**(WI5)** Instrument Recognition in Multitimbral Sections
	09-12					

		Staff member Erlangen 36 months	Staff member Ilmenau 36 months	Work Packages		
1. Year	**01-04**	**WE1**	**WI1**	**(WE1)** Percussive/ Harmonic Complexity	**(WA1)** Solo Activity Detection for Jazz Recordings	**(WI1)** Timbre Modeling
	05-08	**WA1**				
	09-12	**WE2**	**WI2**	**(WE2)** Predominant Melody Detection	**(WA2)** Interactive Annotation Augmentation	**(WI2)** Detection of Monotimbral Sections
		WA2				
2. Year	**01-04**	**WE3**	**WI3**	**(WE3)** Homogeneity-Based Audio Segmentation	**(WA3)** Singing Voice Detection for Opera Recordings	**(WI3)** Polyphony Degree Estimation
	05-08	**WA3**				
	09-12	**WE4**	**WI4**	**(WE4)** Singing Voice Detection	**(WA4)** Instrument (Family) Recognition for Classical Music	**(WI4)** Detection of Vibrato, Tremolo, and Glissando Events
		WA4				
3. Year	**01-04**	**WE5**	**WI5**	**(WE5)** Event Detection Using Fingerprinting Techniques	**(WA5)** Sample Identication in Electronic Dance Music	**(WI5)** Instrument Recognition in Monotimbral Sections
	05-08	**WA5**				
	09-12	**WE6**	**WI6**	**(WE6)** Repetition-Based Event Detection	**(WA6)** Musical Analysis of Jazz Recordings	**(WI6)** Instrument Recognition in Multitimbral Sections
		WA6				

		Staff member Erlangen 36 months	Staff member Ilmenau 36 months	Work Packages		
1. Year	01-04	WE1	WA1	WI1	(WE1)	(WA1)	(WI1)
	05-08	WE2	WA2	WI2	(WE2)	(WA2)	(WI2)
	09-12						
2. Year	01-04	WE3	WA3	WI3	(WE3)	(WA3)	(WI3)
	05-08	WE4	WA4	WI4	(WE4)	(WA4)	(WI4)
	09-12						
3. Year	01-04	WE5	WA5	WI5	(WE5)	(WA5)	(WI5)
	05-08	WE6	WA6	WI6	(WE6)	(WA6)	(WI6)
	09-12						

		Staff member Erlangen 36 months	Staff member Ilmenau 36 months	Work Packages	
1. Year	01-04	W1	W2	(W1)	(W2)
	05-08	W3		(W3)	(W4)
	09-12	W4	W5	(W5)	(W6)
2. Year	01-04	W6		(W7)	(W8)
	05-08	W7	W8	(W9)	(W10)
	09-12	W9		(W11)	(W12)
3. Year	01-04	W10	W11	(W13)	(W14)
	05-08	W12		(W15)	(W16)
	09-12	W13	W14	(W17)	(W18)
		W15			
		W16	W17		
		W18			

		PhD position (36 months, Erlangen)	PhD position (36 months, Ilmenau)	Work Packages	
1. Year	01-04	WM1	WA1	(WM1)	(WA1)
	05-08	WM2	WA2	(WM2)	(WA2)
	09-12	WM3	WA3	(WM3)	(WA3)
2. Year	01-04	WM4	WA4	(WM4)	(WA4)
	05-08	WM5	WA5	(WM5)	(WA5)
	09-12	WM6	WA6	(WM6)	(WA6)
3. Year	01-04	WM7	WA7	(WM7)	(WA7)
	05-08	WM8	WA8	(WM8)	(WA8)
	09-12				

		Stelle (36 Monate)	Stelle (18 Monate)	HiWi	Arbeitspakte
1. Jahr	**01-04**	A1	A2	A4	(A1) Grundlagen zur Musiksynchronisation
					(A2) F0-Schätzung
	05-08	A3	A4		(A3) NMF-basierte Parametrisierung
					(A4) Audioeditierung (1)
	09-12	A6	A5		(A5) Notenbasierte Parametrisierung von F0-Trajektorien
					(A6) Signalrekonstruktion
2. Jahr	**01-04**	A8	A7	A8	(A7) Grundlagen zur Gesangsstimme
		A10	A9		(A8) Audioeditierung (2)
	05-08	A11	A8/ A15		(A9) Parametrisierung von Klangfarbe
					(A10) Kombinierte Signalmodelle
	09-12	A12			(A11) Lokale Constraints in NMF-basierten Verfahren
3. Jahr	**01-04**	A13		A15	(A12) Partielle Musiksynchronisation
					(A13) Kombinierte Optimierungsverfahren
	05-08	A14			(A14) Parametrisierung bei unsicherer Informationslage
	09-12	A15			(A15) Audioeditierung (3)

		PhD position (36 months)	Two student assistants	Work Packages
1. Year	01-03	W1	W1	(W1) Foundations, Infrastructure, and Datasets
	04-06	W2		(W2) Kernel-Based Audio Decomposition
	07-09	W3	W1	(W3) Cascaded Audio Decomposition
	09-12	W4		(W4) Application and Evaluation: Rhythm Analysis
2. Year	01-03	W5	W4	(W5) Informed NMFD Decomposition
	04-06	W6		(W6) Using and Generating Side Information
	07-09	W7		(W7) Application and Evaluation: Intelligent Audio Editing
	09-12	W8	W7	(W8) Attenuation of Pre-Echo Artifacts
3. Year	01-03	W9	W1	(W9) Attenuation of Crosstalk Artifacts
	04-06	W10		(W10) Restoration and Inpainting Approaches
	07-09	W11	W12	(W11) Reflection on Theory and Computational Aspects
	09-12	W12	W12	(W12) Reflection on Evaluation and Practicability