# Unit 13 Intonation (1):

tonality and tonicity

Slides for the session of *Phonetics with Listening Practice (British)* held on 09 July 2024 φων

Intonation (1):

#### Outline

Language and music On the term "intonation"

#### Tonality

unmarked tonality marked tonality

#### Tonicity

meaning of given and new unmarked tonicity marked tonicity given-new transition broad vs. narrow focus

Robert Spence English Department Saarland University

# φων

## Intonation (1):

### Outline

Language and music On the term "intonation"

## Tonality

unmarked tonality marked tonality

## Tonicity

meaning of given and new unmarked tonicity marked tonicity given-new transition broad vs. narrow focus

English Phonetics: Unit 13:['m.glɪʃ fə.'nẹt.tks 'jụ:n.tʰ, |θ3:'tʰi:n]Intonation (1)[,m.tə(v).'neɪʃ.ʰ, 'wʌn]tonality and tonicity[tʰə(v).'næl.t.ti] ən tʰə(v).'nıs.t.ti]Robert Spence, based on material by M. A. K. Halliday['mb ət 'spense 'baset on mə 'tʰɪəx i ət bəsi 'sm ət kʰəx 'bəl td ət]

 $['\_ubb.ət 'spens 'be\_st\_on mə.'t^h\_i\_a\_i.i.əl ba\_i\_'em\_e\_i k^he\_i 'hæl.id.e\_i]$ 

# 1 Language and music

# **2** On the term "intonation"

## **3** Tonality

unmarked tonality marked tonality

# **4** Tonicity

meaning of given and new unmarked tonicity marked tonicity given-new transition broad vs. narrow focus

# φων

### Intonation (1):

#### Outline

Language and music On the term "intonation"

#### Tonality

unmarked tonality marked tonality

#### Tonicity

## Language and music have common origins

A piece of music (e.g. a song) consists of

- melodic phrases, which are made up of
- **bars** (dt.: *Takte*), which are made up of

notes.

Each bar starts with either an 'accentuated' note (one that is louder than normal), or else a 'silent beat', and may also contain one or more unaccented notes as well. A piece of spoken English consists of

- tone groups, which are made up of
- feet, which are made up of
- syllables, which are made up of
- phonemes.

Each foot starts with either a 'stressed' syllable, or else a 'silent beat', and may also contain one or more unstressed syllables as well.

# φων

Intonation (1):

Outline

anguage and music

On the term "intonation"

### Tonality

unmarked tonality marked tonality

### Tonicity

• The term INTONATION, as used here, encompasses three partly related phenomena:

# φων

Intonation (1):

Outline

Language and music

On the term "intonation"

### Tonality

unmarked tonality marked tonality

#### Tonicity

- The term INTONATION, as used here, encompasses three partly related phenomena:
  - TONALITY the division of continuous speech into *melodic units* called TONE GROUPS;

# φων

Intonation (1):

Outline

Language and music

On the term "intonation'

### Tonality

unmarked tonality marked tonality

#### Tonicity

- The term INTONATION, as used here, encompasses three partly related phenomena:
  - TONALITY the division of continuous speech into melodic units called TONE GROUPS;
  - TONICITY the placement of the *melodic nucleus* or TONIC of each tone group;

# φων

Intonation (1):

Outline

Language and music

On the term "intonation'

#### Tonality

unmarked tonality marked tonality

### Tonicity

- The term INTONATION, as used here, encompasses three partly related phenomena:
  - TONALITY the division of continuous speech into melodic units called TONE GROUPS;
  - TONICITY the placement of the *melodic nucleus* or TONIC of each tone group;
  - S TONE the choice of *melody* or INTONATION CONTOUR for each tone group.

# φων

Intonation (1):

Outline

Language and music

On the term "intonation'

#### Tonality

unmarked tonality marked tonality

### Tonicity

- The term INTONATION, as used here, encompasses three partly related phenomena:
  - TONALITY the division of continuous speech into *melodic units* called TONE GROUPS;
  - TONICITY the placement of the *melodic nucleus* or TONIC of each tone group;
  - S TONE the choice of *melody* or INTONATION CONTOUR for each tone group.
- We shall examine each of these in turn.

# φων

Intonation (1):

Outline

Language and music

On the term "intonation'

#### Tonality

unmarked tonality marked tonality

### Tonicity

• TONALITY is the realization of INFORMATION DISTRIBUTION.



Intonation (1):

Outline

Language and music

On the term "intonation"

#### Tonalit

unmarked tonality marked tonality

#### Tonicity

- TONALITY is the realization of INFORMATION DISTRIBUTION.
- One TONE GROUP corresponds to one INFORMATION UNIT.



Intonation (1):

Outline

Language and music

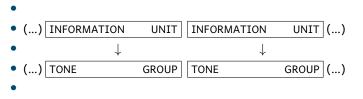
On the term "intonation"

#### Tonalit

unmarked tonality marked tonality

### Tonicity

- TONALITY is the realization of INFORMATION DISTRIBUTION.
- One TONE GROUP corresponds to one INFORMATION UNIT.





Intonation (1):

Outline

Language and music

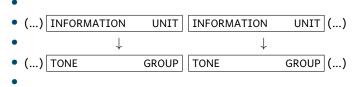
On the term "intonation"

### Tonalit

unmarked tonality marked tonality

### Tonicity

- TONALITY is the realization of INFORMATION DISTRIBUTION.
- One TONE GROUP corresponds to one INFORMATION UNIT.



Unmarked information distribution
 (= 'unmarked tonality'):
 one non-rankshifted clause
 corresponds to
 one information unit.



Intonation (1):

Outline

Language and music

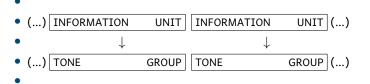
On the term "intonation"

### Tonalit

unmarked tonality marked tonality

### Tonicity

- TONALITY is the realization of INFORMATION DISTRIBUTION.
- One TONE GROUP corresponds to one INFORMATION UNIT.



- Unmarked information distribution
  - (= 'unmarked tonality'): one non-rankshifted clause corresponds to one information unit.
- Marked information distribution

   (= marked tonality):
   one non-rankshifted clause
   corresponds to
   less or more than one information unit.

# φων

Intonation (1):

Outline

Language and music

On the term "intonation"

### Tonalit

unmarked tonality marked tonality

### Tonicity

# Examples of unmarked tonality (1)

INFORMATION	UNIT	INFORMATION UNIT			UNIT
β clause:		α clause:			
When they go	abroad,	they	take	the	car.
$\downarrow$		$\downarrow$			
TONE	GROUP	TONE		G	ROUP
wen dei gəv ə	p:crq	∧ ðei	teık	ðə	ka:



Intonation (1):

Outline

Language and music

On the term "intonation"

Tonality

unmarked tonality

marked tonality

### Tonicity

meaning of given and new unmarked tonicity

marked tonicity

given-new transition

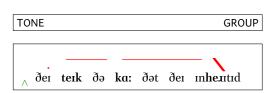
# Examples of unmarked tonality (2)

## INFORMATION

UNIT

independent clause (with rankshifted clause inside):

They take the car [[ that they inherited ]].



# φων

Intonation (1):

Outline

Language and music

On the term "intonation"

#### Tonality

unmarked tonality

marked tonality

#### Tonicity

meaning of given and new unmarked tonicity

marked tonicity

given-new transition

# Examples of marked tonality (1)

INFO UNIT INFORMATION			UNIT	
independent clause:				
He prefers the Ferrari.				
	Ļ			
TONE	GP	TONE		GROUP
hix	п	f3:z	ðə	ir:Dref

# $\varphi\omega\nu$

Intonation (1):

Outline

Language and music

On the term "intonation"

### Tonality

unmarked tonality

marked tonality

## Tonicity

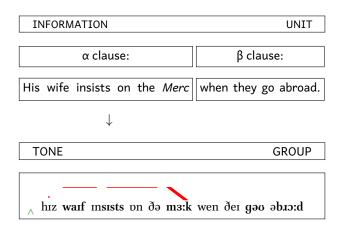
meaning of given and new

unmarked tonicity

marked tonicity

given-new transition

## Examples of marked tonality (2)



# φων

Intonation (1):

Outline

Language and music

On the term "intonation"

Tonality

unmarked tonality

marked tonality

Tonicity

meaning of given and new

unmarked tonicity

marked tonicity

given-new transition

## TONICITY

• TONICITY realizes the internal *structure* of the INFORMATION UNIT as a configuration of 'Given' and 'New' elements, with a 'Focus' within the 'New'.



Intonation (1):

Outline

Language and music

On the term "intonation"

### Tonality

unmarked tonality marked tonality

#### Tonicity

## TONICITY

- TONICITY realizes the internal *structure* of the INFORMATION UNIT as a configuration of 'Given' and 'New' elements, with a 'Focus' within the 'New'.
- The internal structure of the TONE GROUP is: PRETONIC segment (optional) plus TONIC segment (obligatory).

# φων

Intonation (1):

Outline

Language and music

On the term "intonation"

### Tonality

unmarked tonality marked tonality

#### Tonicity

## TONICITY

- TONICITY realizes the internal *structure* of the INFORMATION UNIT as a configuration of 'Given' and 'New' elements, with a 'Focus' within the 'New'.
- The internal structure of the TONE GROUP is: PRETONIC segment (optional) plus TONIC segment (obligatory).

(information unit:)

	•			•		
				Focus		
	Given $ ightarrow$	$\leftarrow$	$\leftarrow$	$\leftarrow New$		
	They	take	the	CAR.		
		$\downarrow$				
•	(tone group:)					
	('Auftakt')	Pretonic		Tonic		
	(foot:)	(foc	ot:)	(foot:)		
	ðei	teık	ðə	ka:		
		JOIN	00			

# φων

Intonation (1):

Outline

Language and music

On the term "intonation"

### Tonality

unmarked tonality marked tonality

#### Tonicity

 'Given' and 'New' are statuses assigned by the speaker to various parts of the information (s)he is transmitting to the addressee.



Intonation (1):

Outline

Language and music

On the term "intonation"

#### Tonality

unmarked tonality marked tonality

Tonicity

meaning of given and new unmarked tonicity

marked tonicity

given-new transition

- 'Given' and 'New' are statuses assigned by the speaker to various parts of the information (s)he is transmitting to the addressee.
- 'Given' means: 'this is something you already know, or else it's information you can recover from the situation'.

# φων

Intonation (1):

Outline

Language and music

On the term "intonation"

#### Tonality

unmarked tonality marked tonality

Tonicity

meaning of given and new unmarked tonicity marked tonicity given-new transition

- 'Given' and 'New' are statuses assigned by the speaker to various parts of the information (s)he is transmitting to the addressee.
- 'Given' means: 'this is something you already know, or else it's information you can recover from the situation'.
- 'New' means: 'this is something I assume you don't yet know, and it's something you can't recover from the situation'.

# φων

Intonation (1):

Outline

Language and music

On the term "intonation"

## Tonality

unmarked tonality marked tonality

### Tonicity

- 'Given' and 'New' are statuses assigned by the speaker to various parts of the information (s)he is transmitting to the addressee.
- 'Given' means: 'this is something you already know, or else it's information you can recover from the situation'.
- 'New' means: 'this is something I assume you don't yet know, and it's something you can't recover from the situation'.
- The meanings 'Given' and 'New' thus constitute part of the 'textual' function of language — establishing relevance, relating an utterance to what has gone before it and what is going on around it.

# φων

Intonation (1):

Outline

Language and music

On the term "intonation"

### Tonality

unmarked tonality marked tonality

### Tonicity

- 'Given' and 'New' are statuses assigned by the speaker to various parts of the information (s)he is transmitting to the addressee.
- 'Given' means: 'this is something you already know, or else it's information you can recover from the situation'.
- 'New' means: 'this is something I assume you don't yet know, and it's something you can't recover from the situation'.
- The meanings 'Given' and 'New' thus constitute part of the 'textual' function of language — establishing relevance, relating an utterance to what has gone before it and what is going on around it.
- Even though these meanings are orientated to the addressee, they are assigned by the speaker.

# φων

Intonation (1):

Outline

Language and music

On the term "intonation"

### Tonality

unmarked tonality marked tonality

### Tonicity

- 'Given' and 'New' are statuses assigned by the speaker to various parts of the information (s)he is transmitting to the addressee.
- 'Given' means: 'this is something you already know, or else it's information you can recover from the situation'.
- 'New' means: 'this is something I assume you don't yet know, and it's something you can't recover from the situation'.
- The meanings 'Given' and 'New' thus constitute part of the 'textual' function of language — establishing relevance, relating an utterance to what has gone before it and what is going on around it.
- Even though these meanings are orientated to the addressee, they are assigned by the speaker.
- The speaker can play games with the addressee, presenting 'given information' as 'New' and 'new information' as 'Given'.

# φων

Intonation (1):

Outline

Language and music

On the term "intonation"

### Tonality

unmarked tonality marked tonality

### Tonicity

• A tone group has 'unmarked tonicity' if the tonic segment begins on the main stress-bearing syllable of the last 'content word'.



Intonation (1):

Outline

Language and music

On the term "intonation"

#### Tonality

unmarked tonality marked tonality

Tonicity

meaning of given and new

unmarked tonicity

marked tonicity

given-new transition

- A tone group has 'unmarked tonicity' if the tonic segment begins on the main stress-bearing syllable of the last 'content word'.
- The utterance we looked at a few moments ago ("They take the CAR") had 'unmarked tonicity', because its last word was the content word "car" (a noun).



Intonation (1):

Outline

Language and music

On the term "intonation"

### Tonality

unmarked tonality marked tonality

Tonicity

meaning of given and new

unmarked tonicity

marked tonicity

given-new transition

- A tone group has 'unmarked tonicity' if the tonic segment begins on the main stress-bearing syllable of the last 'content word'.
- The utterance we looked at a few moments ago ("They take the CAR") had 'unmarked tonicity', because its last word was the content word "car" (a noun).
- So does the following example, because the last word is a 'function word' (the pronoun "it").



Intonation (1):

Outline

Language and music

On the term "intonation"

### Tonality

unmarked tonality marked tonality

### Tonicity

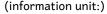
meaning of given and new

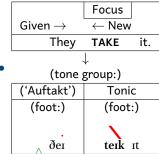
unmarked tonicity

marked tonicity

given-new transition

- A tone group has 'unmarked tonicity' if the tonic segment begins on the main stress-bearing syllable of the last 'content word'.
- The utterance we looked at a few moments ago ("They take the CAR") had 'unmarked tonicity', because its last word was the content word "car" (a noun).
- So does the following example, because the last word is a 'function word' (the pronoun "it").





# φων

Intonation (1):

Outline

Language and music

On the term "intonation"

### Tonality

unmarked tonality marked tonality

#### Tonicity

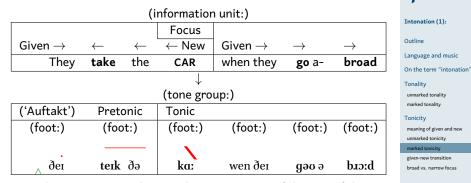
meaning of given and new

unmarked tonicity

marked tonicity

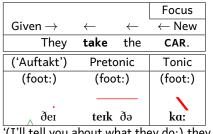
given-new transition

## Marked tonicity (with post-tonic lexical material as 'Given')



Once the tonic segment begins, the tone contour of the rest of the tone group is already decided. In the example shown here, the tone contour is 'falling'. The pitch of the voice falls dramatically on the tonic syllable [ka:], then continues falling slightly all the way to the end of the tone group. All of the lexical material following the tonic syllable is thus signalled as being 'Given'.

## Hearing the beginning of the 'New'



'(I'll tell you about what they do:) they take the car'

			Focus
Given $ ightarrow$	$\rightarrow$	$\rightarrow$	$\leftarrow$ New
They	take	the	CAR.
('Auftakt')			Tonic
(foot:)			(foot:)
_ ðei	teık	ðə	ka:

'(I'll tell you about what they take:) they take the car'

# φων

Intonation (1):

Outline

Language and music

On the term "intonation"

#### Tonality

unmarked tonality marked tonality

### Tonicity

meaning of given and new

unmarked tonicity

marked tonicity

given-new transition

 The previous slide showed an example of 'broad' vs. 'narrow' focus:



Intonation (1):

Outline

Language and music

On the term "intonation"

### Tonality

unmarked tonality marked tonality

#### Tonicity

meaning of given and new

unmarked tonicity marked tonicity

given-new transition

- The previous slide showed an example of 'broad' vs. 'narrow' focus:
- In "they **take** the **CAR**" the focus is 'broad', because the information being treated as 'new' (culminating at the word "car") extends all the way back to "take" (what they did was: take the car).

# φων

Intonation (1):

Outline

Language and music

On the term "intonation"

## Tonality

unmarked tonality marked tonality

### Tonicity

meaning of given and new unmarked tonicity marked tonicity

given-new transition

- The previous slide showed an example of 'broad' vs. 'narrow' focus:
- In "they **take** the **CAR**" the focus is 'broad', because the information being treated as 'new' (culminating at the word "car") extends all the way back to "take" (what they did was: take the car).
- In "they take the CAR" the focus in 'narrow', because the information being presented as 'new' only covers the information that what they took was the car.

# φων

Intonation (1):

Outline

Language and music

On the term "intonation"

### Tonality

unmarked tonality marked tonality

### Tonicity

- The previous slide showed an example of 'broad' vs. 'narrow' focus:
- In "they **take** the **CAR**" the focus is 'broad', because the information being treated as 'new' (culminating at the word "car") extends all the way back to "take" (what they did was: take the car).
- In "they take the CAR" the focus in 'narrow', because the information being presented as 'new' only covers the information that what they took was the car.
- Here it was possible to actually 'hear' the point at which the 'New' begins: at the beginning of the first 'full' foot.

# φων

Intonation (1):

Outline

Language and music

On the term "intonation"

### Tonality

unmarked tonality marked tonality

### Tonicity

- The previous slide showed an example of 'broad' vs. 'narrow' focus:
- In "they **take** the **CAR**" the focus is 'broad', because the information being treated as 'new' (culminating at the word "car") extends all the way back to "take" (what they did was: take the car).
- In "they take the CAR" the focus in 'narrow', because the information being presented as 'new' only covers the information that what they took was the car.
- Here it was possible to actually 'hear' the point at which the 'New' begins: at the beginning of the first 'full' foot.
- In many cases, however, the only way to tell where the 'Given'-'New' transition occurs is to work it out from the context.

# φων

Intonation (1):

Outline

Language and music

On the term "intonation"

### Tonality

unmarked tonality marked tonality

### Tonicity