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# Introduction

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# **Theory and Background**

## **Part I**



# **1 Core Phenomena in Tonal Music**

**1.1 Structured Tonal Motion**

**1.2 Polyphony**

**1.3 Musical Time**

**1.4 Repetition**





## **2 Models of Tonal structure**

**2.1 grammar**

**2.2 Interpreting syntax as type**



## **3 Outlook**

### **3.1 A holistic model of tonal music**



# **A Process Algebra For Metered**

## **Polyphony**

### **Part II**



## **4 Tonal motion as hierarchical Processes**

**4.1 Stationary and Transitory Processes**

**4.2 Temporal abstractions**

**4.3 Spatial abstractions**

**4.4 Reinterpretation of existing theories under this framework**





## **5 Timely processes**

### **5.1 Hierarchical Pulses**

### **5.2 Temporal relations of processes**

### **5.3**



# **Structural Repetition**

## **Part III**



**5.4 Templates as Higher-order Functions: Coordinating Syntax and Repetition**

**5.5 Composable templates**

**5.6 Templates of templates**

**5.7 Various Types of Structural Repetition**

**5.7.1 Exact Repetition**

**5.7.2 Surface Variation**

**5.7.3 Reinterpretation**

**5.7.4 Transference**

**5.8 Repetition-Syntax-Material Factorization**

**5.8.1 Cross Domain Translation of Repetition Structure**



**Sampling Metered Polyphony with  
Repetition Constraint: A Case Study  
on Galant Music**

**Part IV**

