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From holism to compositionality: memes and the evolution of segmentation, syntax, and signification in music and language

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Figure 2: The Memetic-Semiotic Nexus of an \( m-l \) Music-Language M(us)emeplex

<table>
<thead>
<tr>
<th>Memotype</th>
<th>Phemotype</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music</td>
<td>Language</td>
</tr>
<tr>
<td>Music</td>
<td>Language</td>
</tr>
</tbody>
</table>

### i) Level-One (horizontal) and Level-Two (vertical) Semiosis

#### a) Level-Two Signifiers
- **Museme** \( m \) (sound image of \( m \))
- **Lexeme** \( l \) (sound image of \( l \))
- **Grapheme** \( G_m \) (codes for notation of \( m \))
- **Grapheme** \( G_l \) (codes for notation of \( l \))
- **Museme Product** \( m \) (sung sound of \( m \))
- **Lexeme Product** \( l \) (spoken sound of \( l \))
- **Grapheme Product** \( G\!\!m \) (notation of \( m \))
- **Grapheme Product** \( G\!\!l \) (notation of \( l \))

#### b) Level-Two Signifieds
- **Interpretant-Lexemeplex** \( I_l \) (codes for \( l \)-mediating lexemes)
- **Interpretant Lexemeplex Products** \( I\!\!l \) (spoken and written expression of \( l \)-mediating lexemes)

### ii) Level-Three (diagonal) Semiosis

#### a) Signifiers
- **Museme** \( m \)
- **Lexeme** \( l \)
- **Grapheme** \( G_m \)
- **Grapheme** \( G_l \)

#### b) Signifieds
- **Museme Product** \( m \)
- **Lexeme Product** \( l \)