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# On "crystal growth" in harmonic space

Figure 16 and Figure 20

notated in the 'Extended Helmholtz-Ellis JI Pitch Notation'  
devised by Marc Sabat and Wolfgang von Schweinitz

Figure 16 and Figure 20 are represented by three staves of musical notation. The notes are half notes with stems pointing up or down. Above the notes are ratios in JI notation. The ratios for Figure 16 are:  $5/3$ ,  $5/4$ ,  $15/8$ ,  $45/32$ . The ratios for Figure 20 are:  $16/9$ ,  $4/3$ ,  $1/1$ ,  $3/2$ ,  $9/8$ ,  $27/16$ . The ratios for Figure 20 are:  $16/15$ ,  $8/5$ ,  $6/5$ ,  $9/5$ .

14 points 3,5-space

Figure 20 is represented by a complex arrangement of musical notation. The notes are half notes with stems pointing up or down. Above the notes are ratios in JI notation:  $10/9$ ,  $5/3$ ,  $5/4$ ,  $15/8$ ,  $45/32$ . The notes are arranged in a way that shows the relationships between the ratios and the notes.

41 points in 3,5,7-space