

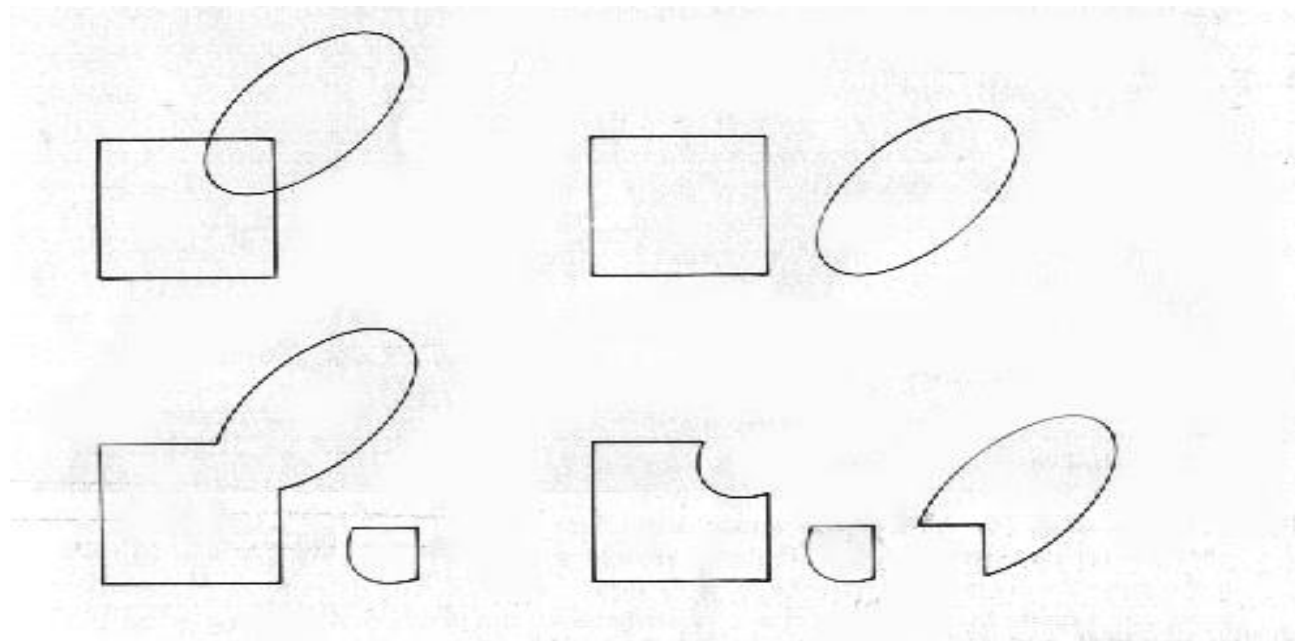
Perceptual advantage for congruence

An intermodal and intramodal study

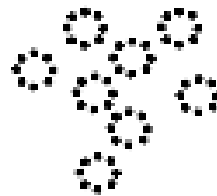
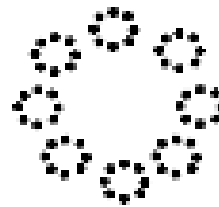
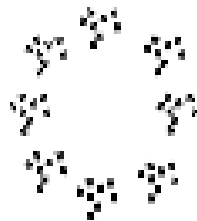
Purpose of the study

Examination of the hypothesis that perceptual sensitivity to congruence has an advantage over other known perceptual sensitivities

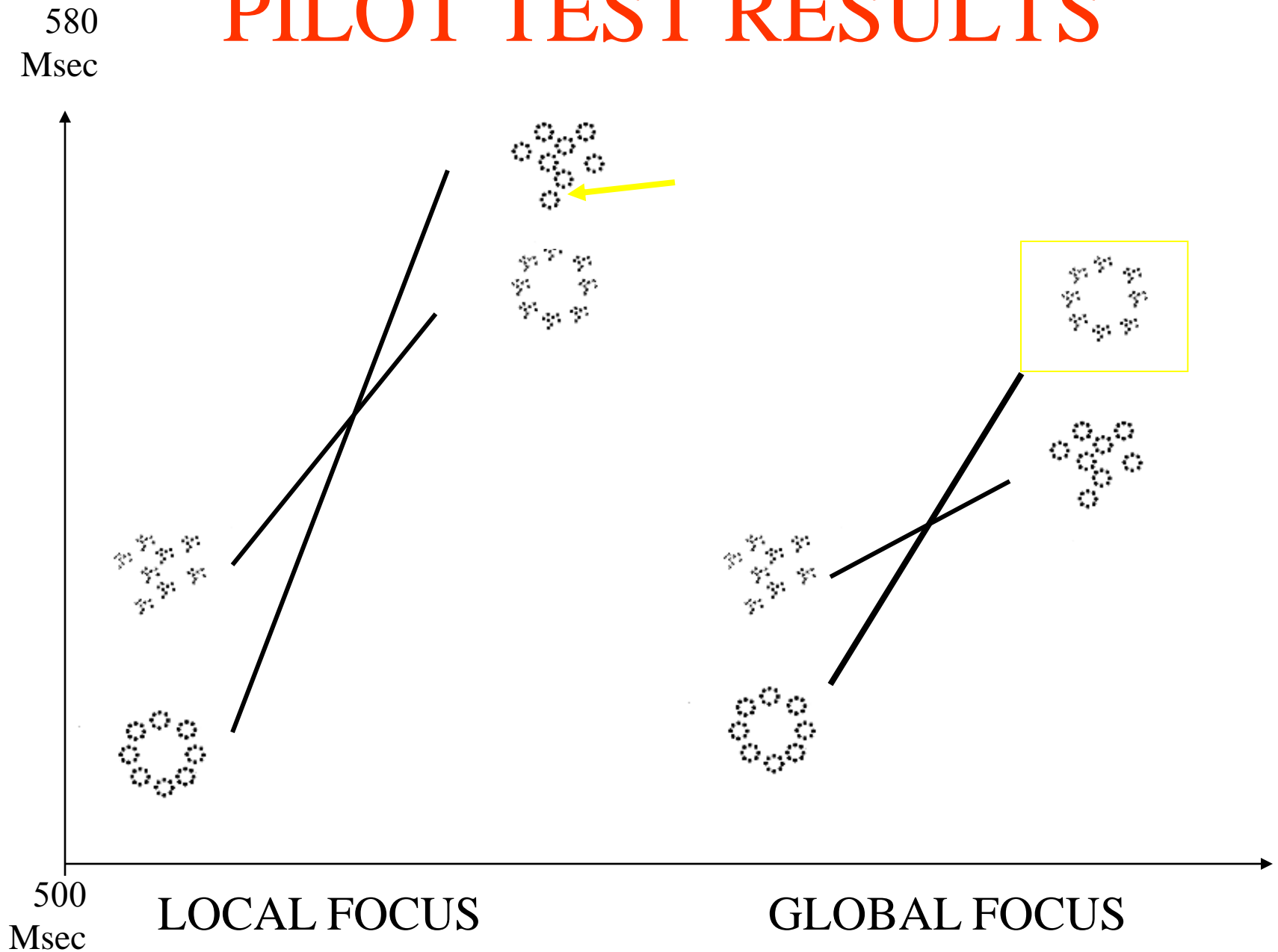
Sensitivity to good figure



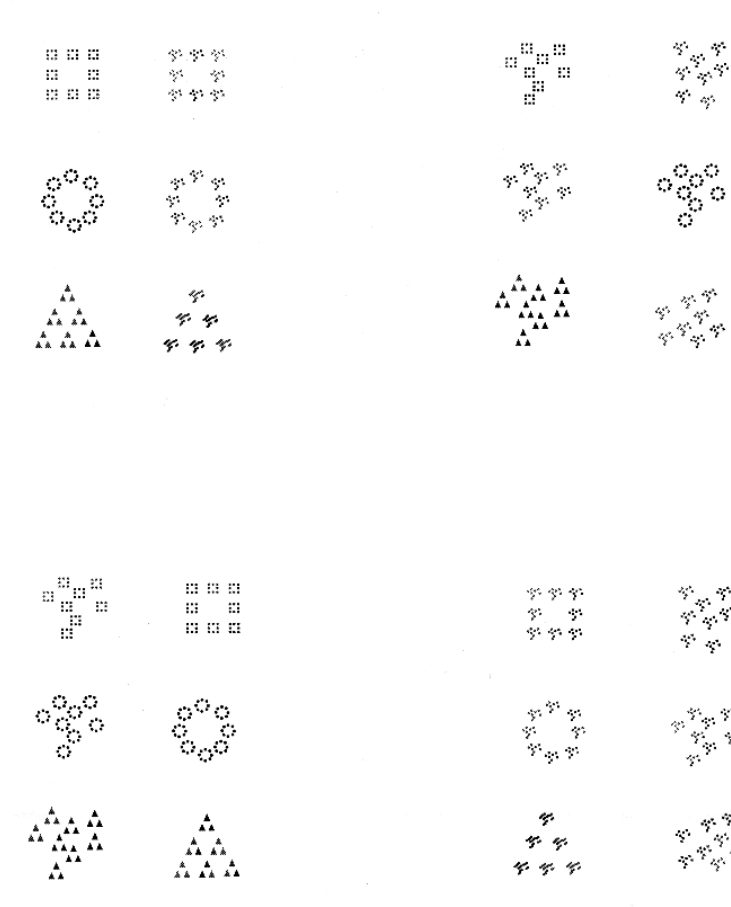
Stimuli in pilot experiment



PILOT TEST RESULTS



Pilot experiment



Global focus

Local focus

Auditory consonance and dissonance

Consonant complex sound •

400 400 400

1600 1200 800 **400**

Dissonant complex sound •

20 390 10

820 800 410 **400**

2 SIMULTANEOUSLY :INTERVALS HEARD COMPLEX SOUNDS

CONSONANT INTERVAL MADE
OF DISSONANT SOUNDS

720 630 540 450 180 **90**
1080 990 900 810 360 **270**



VISUAL PARALLEL

CONSONANT INTERVAL MADE
OF CONSONANT SOUNDS

700 600 500 400 300 200 **100**
600 400 **200**



VISUAL PARALLEL

DISSONANT INTERVAL MADE
OF DISSONANT SOUNDS

700 613 455 400 319 211 **100**
677 417 **190**



VISUAL PARALLEL

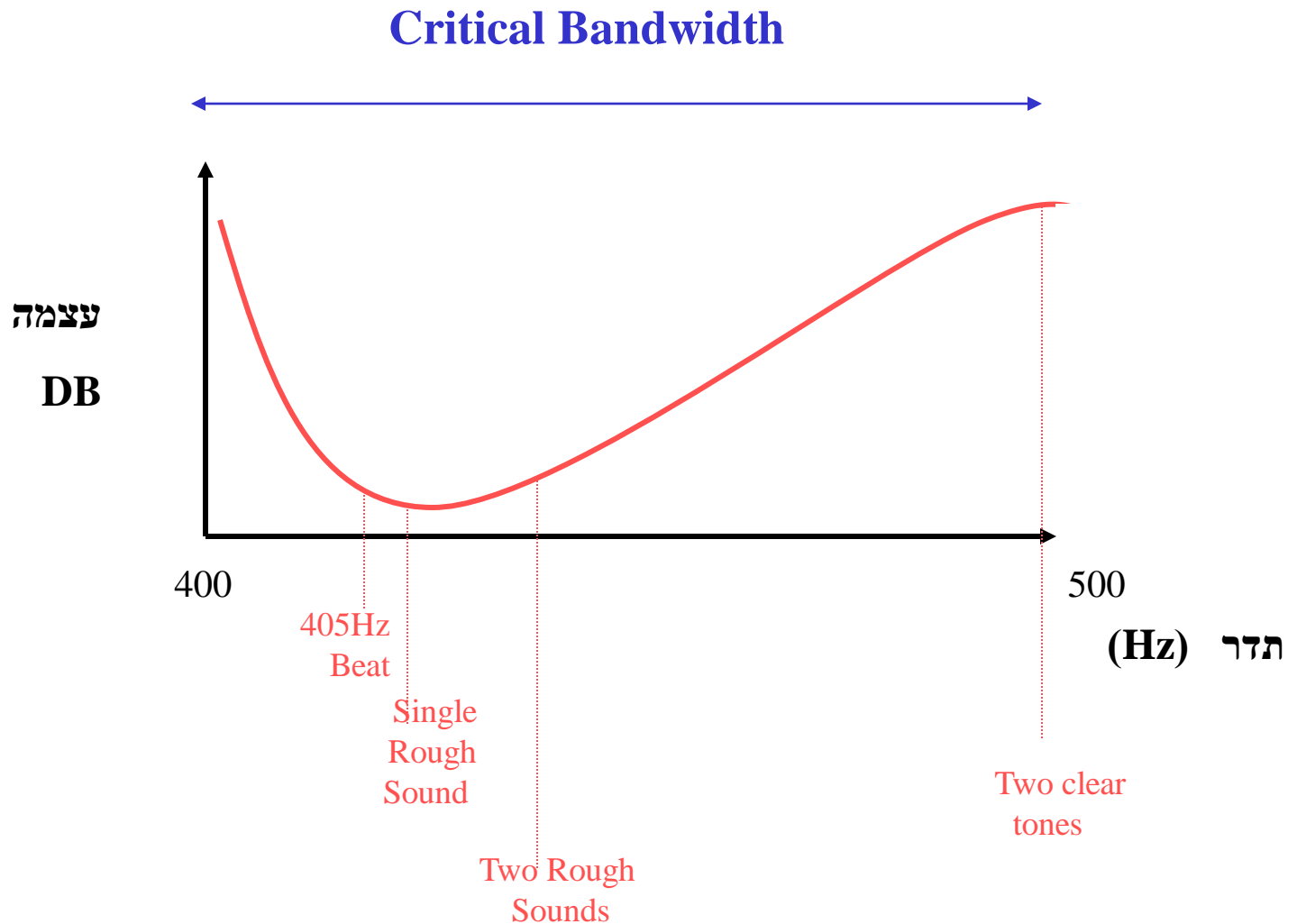
DISSONANT INTERVAL MADE
OF CONSONANT SOUNDS

700 600 500 400 300 200 **100**
651 434 **217**



VISUAL PARALLEL

רוחב תדר קריטי – פעמות וחספוס



תדרי צלילים מורכבים בפסנתר

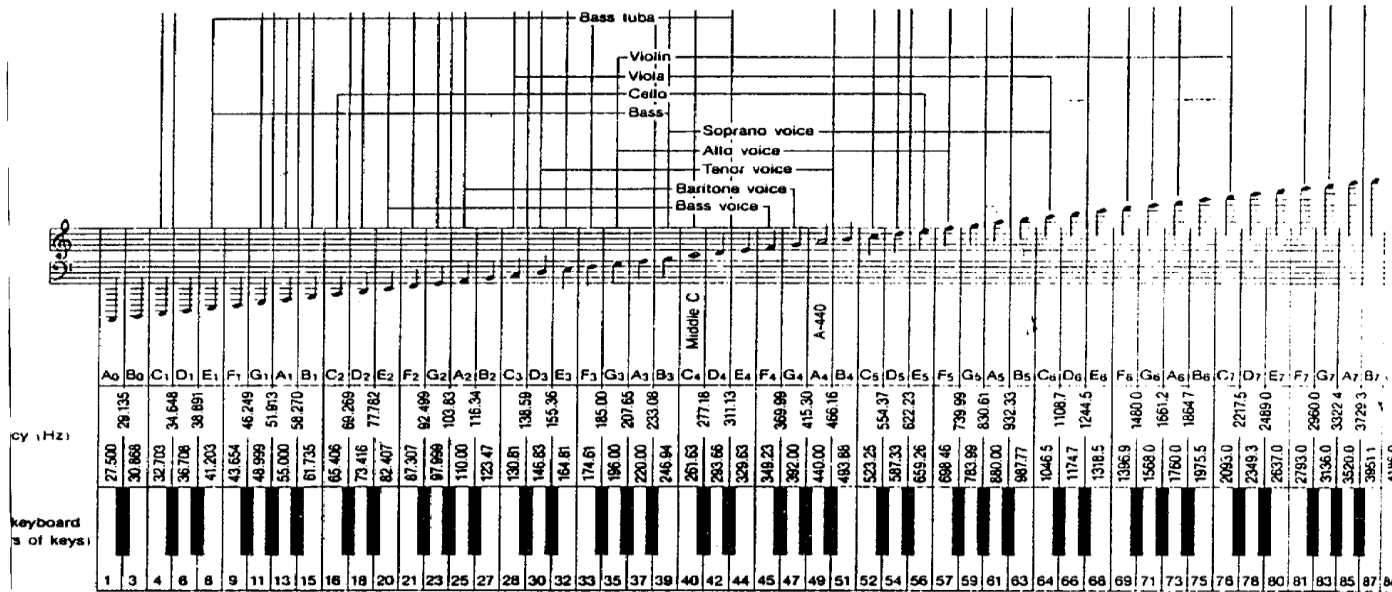


FIGURE 11.5 The piano keyboard showing the fundamental frequencies associated with each note and the ranges of various instruments. (From Conn, Ltd.)



or overtones of the fundamental frequency. In this example, the second harmonic has a frequency of