

# revised INTERVALS TUNEABLE BY EAR (under 3 Octaves wide)

tested and notated above the violin A-string

notated using the Extended Helmholtz-Ellis JI Pitch Notation  
microtonal accidentals designed by Marc Sabat and Wolfgang von Schweinitz, 2004

The image displays ten staves of musical notation, each representing a set of intervals. Each interval is shown as a note on a staff with a ratio in a box above it and a cents value below it. The intervals are:

- Staff 1: 1/1, 8/7 (+31.2), 7/6 (-33.1), 6/5 (+15.6), 11/9 (+47.4), 5/4 (-13.7), 9/7 (+35.1), 13/10 (-45.8), 4/3 (-2.0)
- Staff 2: 11/8 (+51.3), 7/5 (-17.5), 10/7 (+17.5), 13/9 (-63.4), 16/11 (-51.3), 3/2 (+2.0), 14/9 (-35.1), 11/7 (+82.5), 8/5 (+13.7)
- Staff 3: 13/8 (-59.5), 5/3 (-15.6), 12/7 (+33.1), 7/4 (-31.2), 9/5 (+17.6), 11/6 (+49.4), 13/7 (-28.3), 15/8 (-11.7), 23/12 (+26.3)
- Staff 4: 2/1 (-61.4), 13/6 (+65.0), 11/5 (+3.9), 9/4 (-33.1), 7/3 (-2.5), 19/8 (+15.6), 12/5 (+36.1), 17/7 (-13.7), 5/2 (-13.7)
- Staff 5: 18/7 (+35.1), 13/5 (-45.8), 8/3 (-2.0), 11/4 (+51.3), 14/5 (-17.5), 17/6 (+3.0), 20/7 (+17.5), 23/8 (+28.3), 3/1 (+2.0)
- Staff 6: 28/9 (-35.1), 25/8 (-27.4), 22/7 (+82.5), 19/6 (-4.4), 16/5 (+13.7), 13/4 (-59.5), 10/3 (-15.6), 27/8 (+5.9), 17/5 (+18.6)
- Staff 7: 24/7 (+33.1), 7/2 (-31.2), 18/5 (+17.6), 11/3 (+49.4), 15/4 (-11.7), 19/5 (+11.2), 23/6 (+26.3), 27/7 (+37.0), 4/1 (+37.0)
- Staff 8: 25/6 (-29.3), 21/5 (-15.5), 17/4 (+5.0), 13/3 (-61.4), 22/5 (+65.0), 9/2 (+3.9), 23/5 (+42.0), 14/3 (-33.1), 19/4 (-2.5)
- Staff 9: 24/5 (+15.6), 5/1 (-13.7), 26/5 (-45.8), 21/4 (-29.2), 16/3 (-2.0), 11/2 (+51.3), 28/5 (-17.5), 17/3 (+3.0), 23/4 (+28.3), 6/1 (+2.0)
- Staff 10: 25/4 (-27.4), 19/3 (-4.4), 13/2 (-59.5), 20/3 (-15.6), 27/4 (+5.9), 7/1 (-31.2), 22/3 (+49.4), 15/2 (-11.7), 23/3 (+26.3), 8/1 (-11.7)