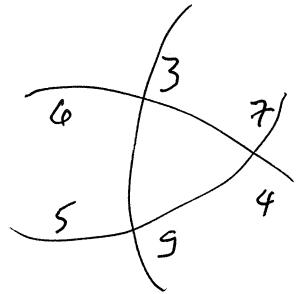
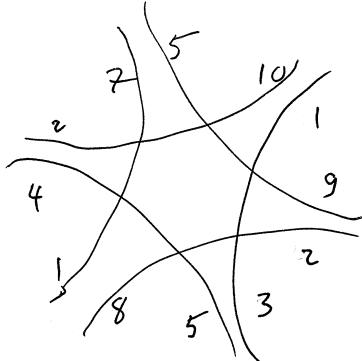
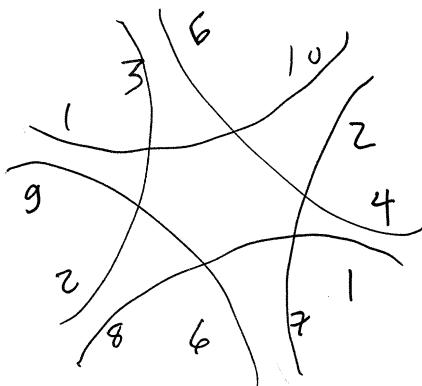
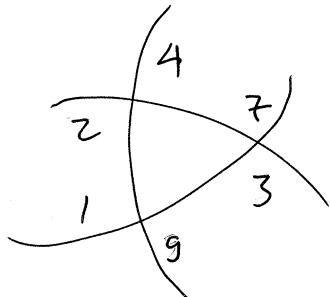
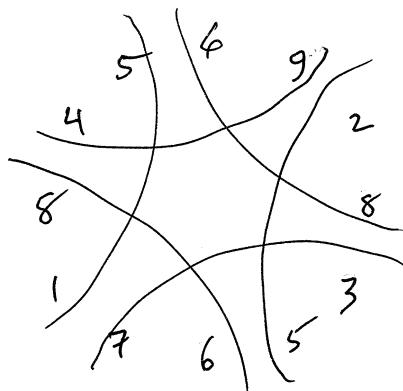
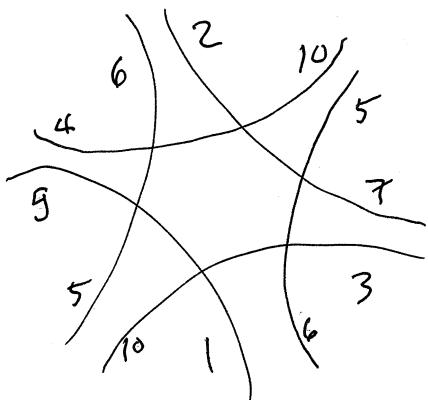


Tom Johnson



Septet III: Valse



Septuor "Valse." This $(10, 4, 2)$ design, like the other 13 designs that complete the piece contains 45 four-note chords and all 45 pairs of elements 1 to 10.

Introduction

Septet III is a mechanical sounding little waltz that takes a long time to go nowhere in particular, but you will probably find that it does not sound trivial, and you will need time to enter into this little machine and begin to hear how it is working. The music follows an intricate system with notes spinning directly out of a mathematical configuration known as a large (10,4,2). This means that:

The 10 notes of the scale are all heard the same number of times.

Each of the 14 sections contains a different collection of 15 four-note chords, always heard as two-notes-plus-two-notes.

The $14 * 15$ chords used in the piece constitute all the 210 possible four-note groupings within this 10-note scale.

In each section the 15 chords are heard three times each, and each pair of notes comes together once.

Except at the beginnings and ends of phrases, each measure contains two notes that are common to the preceding measure and two that are common to the following measure.

Additional symmetries are so numerous that trying to find all of them would be an endless task.

I am indebted to my mathematician friend Franck Jedrzejewski, who helped me calculate the 14 (10,4,2) designs, following procedures defined by Kramer, Magliveras and Stinson in the *Australasian Journal of Combinatorics* (1991).

Tom Johnson, January 2010

Septuor "Valse"

Tom Johnson

$\text{♩} = 72$

Flute I
Flute II
Oboe
Clarinet (C)
Violin I
Violin. II
Viola

Septet III

13

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

25

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

Septet III

37

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

49

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

Septet III

61

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

p

p

73

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

Septet III

85

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

97

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

Septet III

109

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

121

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

Septet III

133

Fl. I

Fl. II

Ob.

Cl.

Vn. I

Vn. II

Vla.

145

Fl. I

Fl. II

Ob.

Cl.

Vn. I

Vn. II

Vla.

Septet III

157

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

169

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

Septet III

181

Fl. I

Fl. II

Ob.

Cl.

Vn. I

Vn. II

Vla.

193

Fl. I

Fl. II

Ob.

Cl.

Vn. I

Vn. II

Vla.

Septet III

205

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

217

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

Septet III

229

Fl. I

Fl. II

Ob.

Cl.

Vn. I

Vn. II

Vla.

241

Fl. I

Fl. II

Ob.

Cl.

Vn. I

Vn. II

Vla.

Septet III

253

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

265

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

Septet III

277

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

mf

mf

289

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

p

p

Septet III

301

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

313

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

Septet III

325

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

337

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

Septet III

349

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

p

361

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

Septet III

373

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

385

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

Septet III

397

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

p

409

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

Septet III

421

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

433

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

Septet III

445

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

457

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

Septet III

469

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

481

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

Septet III

493

Fl. I

Fl. II

Ob.

Cl.

Vn. I

Vn. II

Vla.

505

Fl. I

Fl. II

Ob.

Cl.

Vn. I

Vn. II

Vla.

Septet III

517

Fl. I

Fl. II

Ob.

Cl.

Vn. I

Vn. II

Vla.

p

529

Fl. I

Fl. II

Ob.

Cl.

Vn. I

Vn. II

Vla.

Septet III

541

Fl. I

Fl. II

Ob.

Cl.

Vn. I

Vn. II

Vla.

553

Fl. I

Fl. II

Ob.

Cl.

Vn. I

Vn. II

Vla.

Septet III

565

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

577

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

Septet III

589

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

601

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

Septet III

613

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

mf

mf

625

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

p

p

Septet III

637

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

649

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

Septet III

661

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

673

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

Septet III

685

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

697

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

Septet III

709

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

721

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

Septet III

733

Fl. I

Fl. II

Ob.

Cl.

Vn. I

Vn. II

Vla.

p

745

Fl. I

Fl. II

Ob.

Cl.

Vn. I

Vn. II

Vla.

Septet III

757

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.

770

Fl. I
Fl. II
Ob.
Cl.
Vn. I
Vn. II
Vla.



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218

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