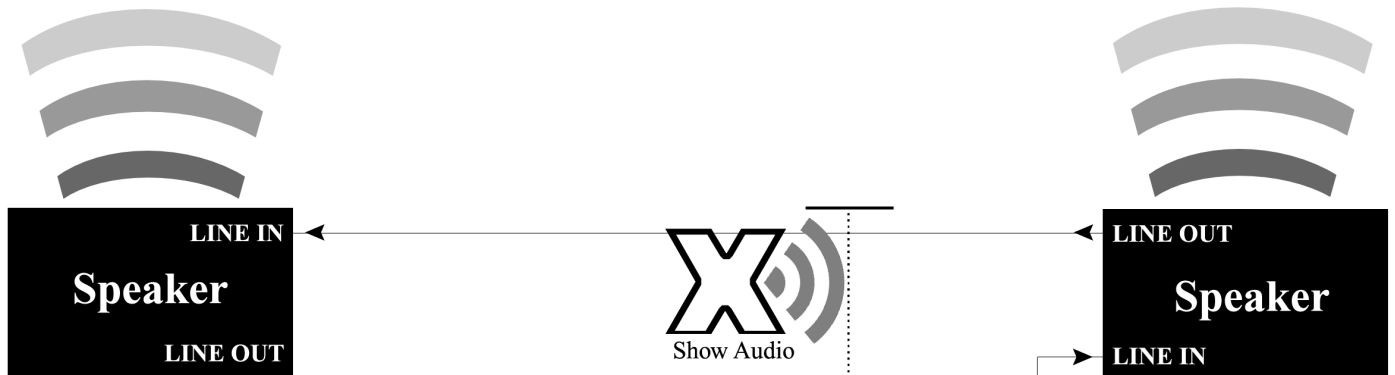
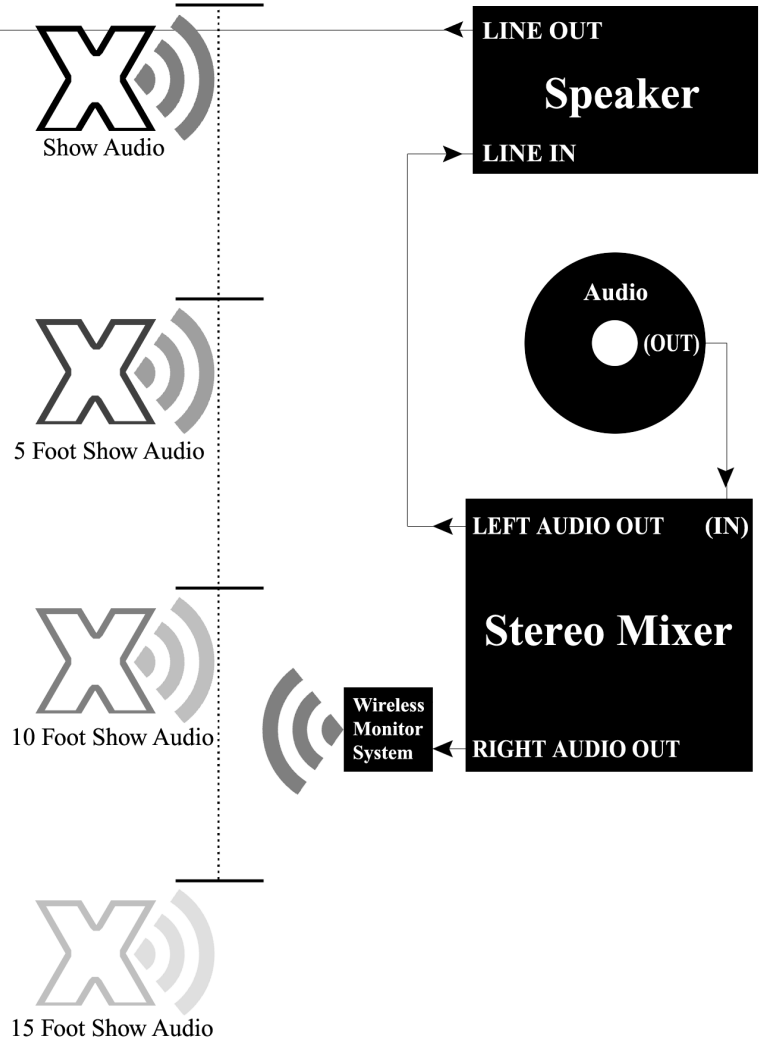


A qubit (or quantum bit) is the basic unit of information for a quantum computer. This two-state, quantum-mechanical system has the potential to exist in a superposition of both states simultaneously. This is a property that is fundamental to quantum computing...



AUDIO SETUP NOTES:

- * This piece is designed for the use of a wireless monitor system or wired headphones as defined in the diagram. -Wireless monitor systems, speakers and mixers are easily rented from local music shops.
- * A mixer is ideal so you can customize the click-track volume level and audience volume independently and to your liking. Otherwise, a stereo splitter will work at the cost of direct variation in levels.
- * Speaker volume should be greater than or equal to the performers volume! -Depending on your speakers, it may be necessary to add a sub-bass speaker.
- * Please note that an empty room will react much differently than a room full of people. The speaker volume will be noticeably dampened with an audience.
- * **To ensure proper alignment**, this piece must be practiced with a metronome or rehearsal click-track at **all** times! Also, memorization will significantly decrease error.



QUBIT STATES

♩ = 135 notes: use edge to center to facilitate dynamics throughout the - for extra weight and the for rim shots

Snare Drum 4/4

12 **Block Sphere**

17

22

27 **Quantum Bit**

31

35

39

43 **d-Level Quint**

49

55 **d-Level Quint**

The musical score is written on a single staff for Snare Drum in 4/4 time. It consists of 55 measures. The tempo is marked as quarter note = 135. The score includes various dynamics such as *p*, *mf*, *f*, *mp*, and *fz*. Techniques like accents (^), rim shots (R), and triplets (3) are indicated. The score is divided into sections: 'Block Sphere' (measures 12-22), 'Quantum Bit' (measures 27-31), and 'd-Level Quint' (measures 43-55). A large, semi-transparent 'SAMPLE' watermark is oriented diagonally across the page. A circular logo with a mesh background and the letters 'DRI' is centered over the lower half of the score.

Qubit States

65 *mf* *mp*

69 *mf* *p* *f* 42 *mf*

73 *f mp* *f* *mf*

Phase Factor

cross stick shot

78 *f* *mf*

82 *f*

87 *ff*

Quantum Logic Gate

99 *f*

(mf 3rd - 8th time)

101 *mf*

Superposition

emphasize beats 2 and 4

105 *f*

109 *mf*



0 and 1

111 *mf* *f* *mp* *f* *mf*

R R L L R L L L R L R L L L

116 *f* *ff* *mp* *f*

119 *p* *mp*

no crescendo on the ^

L L R L L R R L R R R L L R L L R L L

Spin-up and Spin-down

123 R L L R L L

127 *mf* *f* *mf*

R L R L R L R L L R R L R R L

131 *mf* *p* *mp* *f*

L L R L L R R R R L L L L

135 *mf* *f*

L L L R R R R R L R

4:3 4:3 3

Parallelism

138 *mp* *snare* *mf*

4/4

146 *mf*

149 *f* *f* *ff*

3



Qubit States

Entanglement

153 *mf* *snare on* *f*

162 *mp* *f* *mp*

165 *f* *mf* *mf*

Musical notation for the 'Entanglement' section, including measures 153, 162, and 165. It features various rhythmic patterns, dynamic markings, and articulation symbols.

Quantum Register

169 *ff*

173 *f* *sfz*

Musical notation for the 'Quantum Register' section, including measures 169 and 173. It includes dynamic markings and a time signature change to 5/4.

177 *mf* *mp* *f* *mf* *f*

181 *mf* *mp*

Musical notation for measures 177 and 181, featuring complex rhythmic patterns and dynamic markings.

Quantum Correlation

184 *ff* *f* *mf* *mf*

189 *f* *mf*

Musical notation for the 'Quantum Correlation' section, including measures 184 and 189. It includes dynamic markings and articulation instructions.

