

MTO 13.3 Examples: Tymoczko, Recasting K-nets

(Note: audio, video, and other interactive examples are only available online)
<http://www.mtosmt.org/issues/mto.07.13.3/mto.07.13.3.tymoczko.php>

Figure 1.

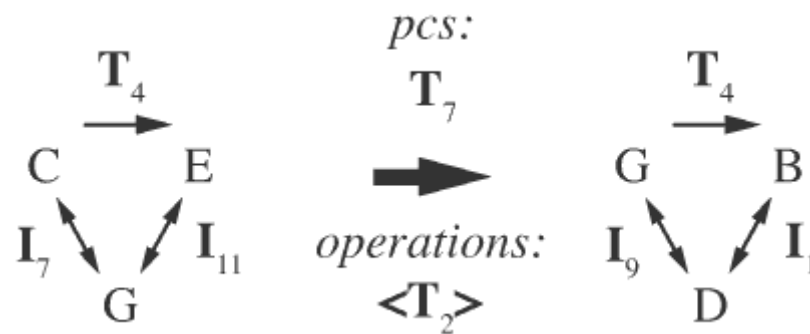


Figure 2.

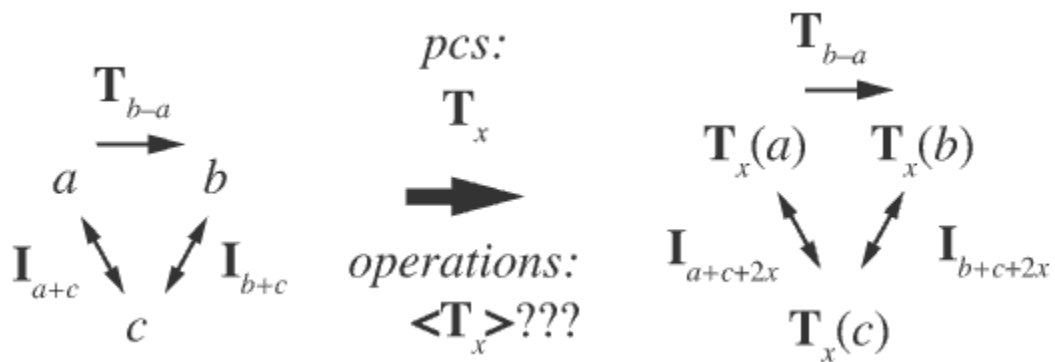


Figure 3.

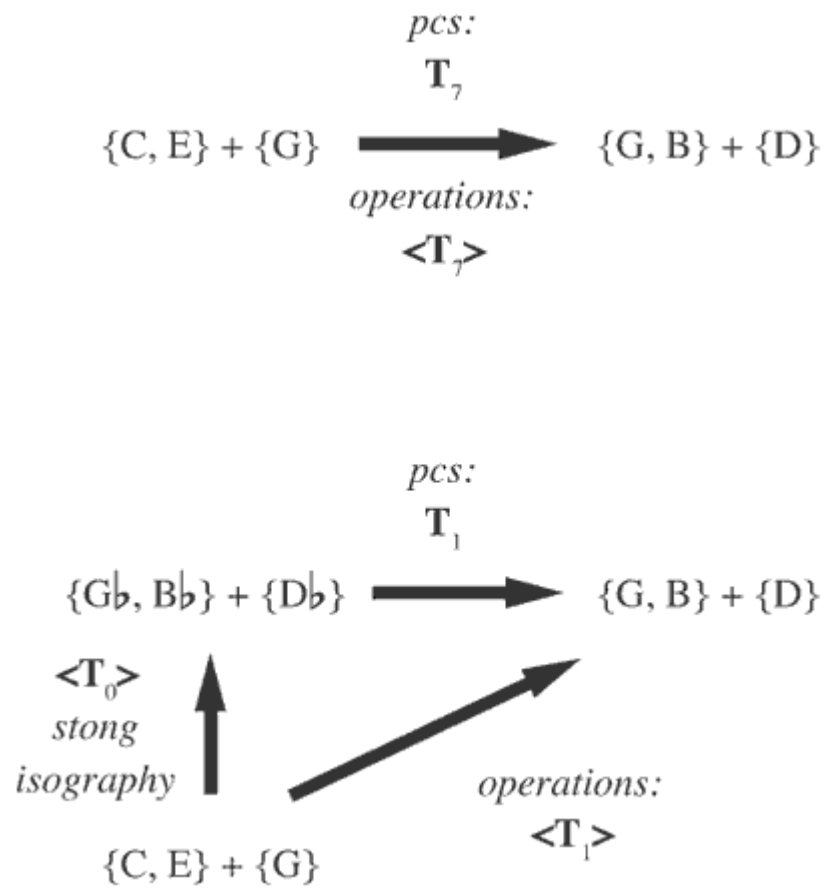


Figure 4.

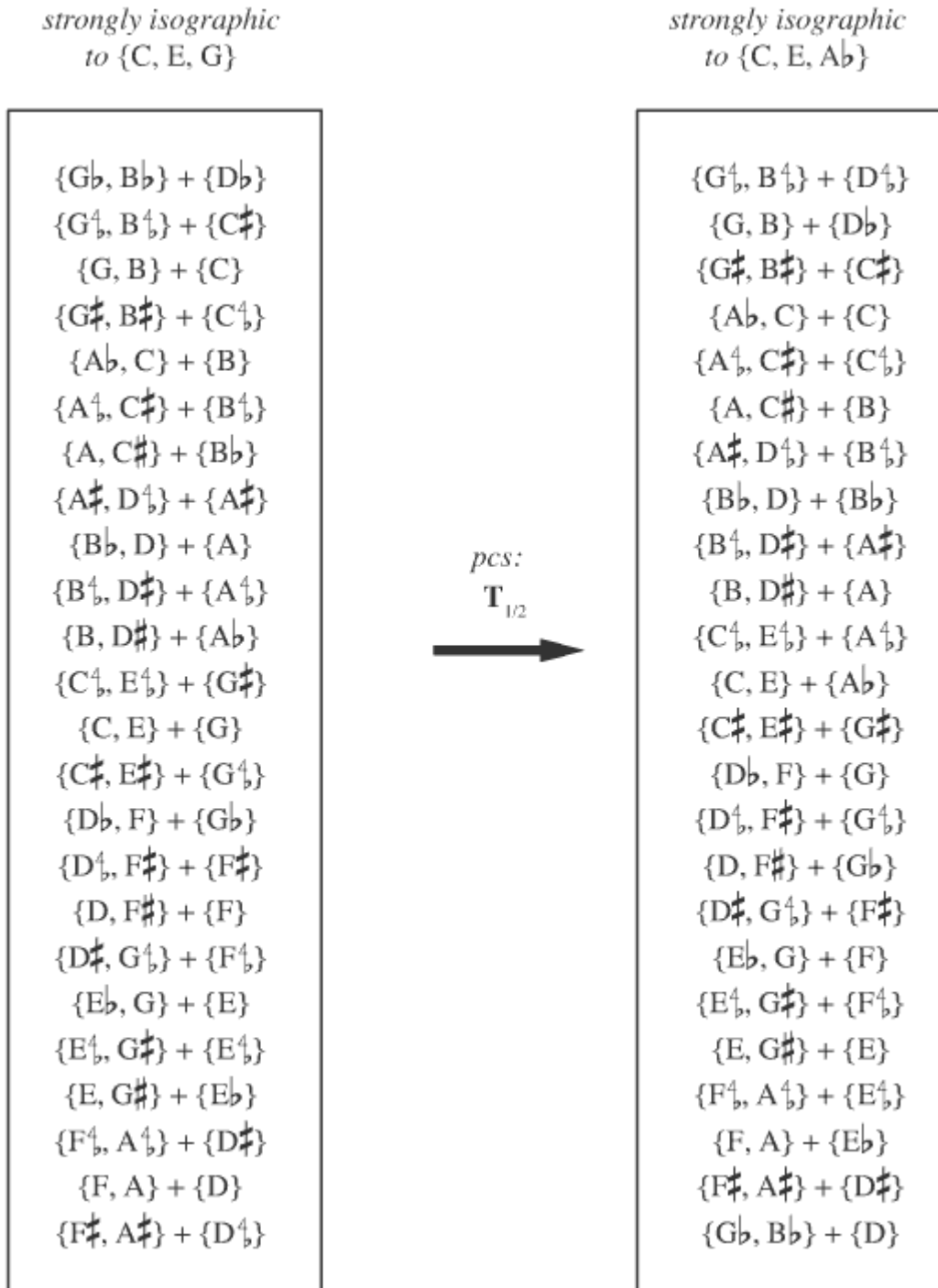


Table 1.

	Pitches	Collections	Operations
Standard Notation	$T_x(p) = x + p$ $I_x(p) = x - p$	$T_x(p, I_y(p)) = (p + x, \mathbf{I}_{2x+y}(p + x))$ $I_x(p, I_y(p)) = (x - p, \mathbf{I}_{2x-y}(x - p))$	$\langle T_x \rangle I_y = \mathbf{I}_{(x+y)}$ $\langle I_x \rangle I_y = \mathbf{I}_{(x-y)}$
Alternative 1 (index numbers)	$T_x(p) = x + p$ $I_x(p) = x - p$	$T_x(p, I_y(p)) = (p + x, \mathbf{I}_{2x+y}(p + x))$ $I_x(p, I_y(p)) = (x - p, \mathbf{I}_{2x-y}(x - p))$	$\langle T_x \rangle I_y = \mathbf{I}_{(2x+y)}$ $\langle I_x \rangle I_y = \mathbf{I}_{(2x-y)}$
Alternative 2 (Lewin labels)	$T_x(p) = x + p$ $I_b^a(p) = a + b - p$	$T_x(p, I_b^a(p)) = (p + x, \mathbf{I}_{b+x}^{a+x}(p + x))$ $I_b^a(p, I_d^c(p)) = (a + b - p, \mathbf{I}_{a+b-d}^{a+b-c}(a + b - p))$	$\langle T_x \rangle I_b^a = \mathbf{I}_{b+x}^{a+x}$ $\langle I_b^a \rangle I_d^c = \mathbf{I}_{a+b-d}^{a+b-c}$
Alternative 3 (inversional centers)	$T_x(p) = x + p$ $I_x(p) = 2x - p$	$T_x(p, I_y(p)) = (p + x, \mathbf{I}_{x+y}(p + x))$ $I_x(p, I_y(p)) = (2x - p, \mathbf{I}_{2x-y}(2x - p))$	$\langle T_x \rangle I_y = \mathbf{I}_{(x+y)}$ $\langle I_x \rangle I_y = \mathbf{I}_{(2x-y)}$

Figure 5.

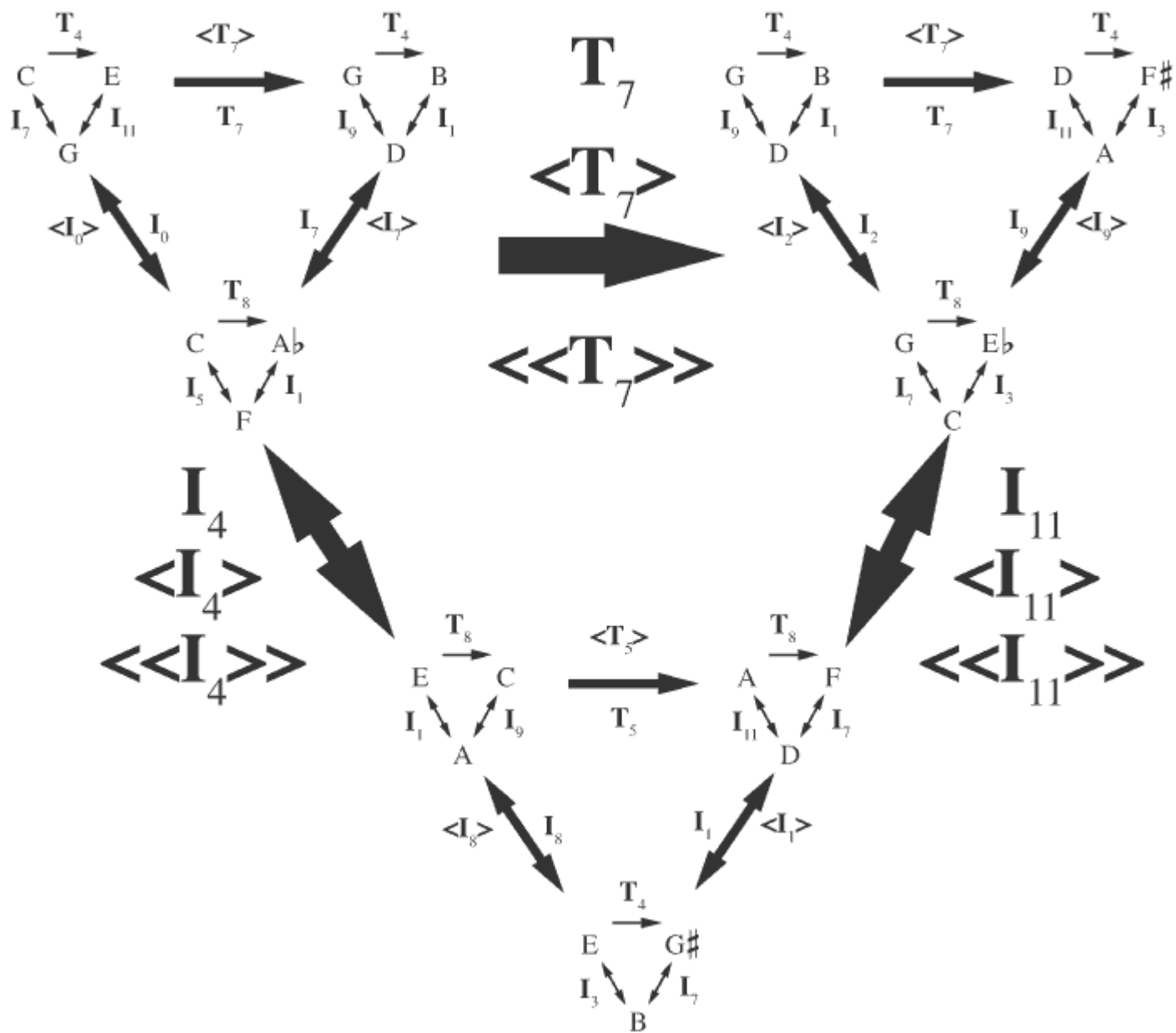


Figure 6.

