

transposition and inversion: if two pitch-class sets belong to the same set class, they are related by transposition or inversion

inversion

if one of the two pc sets that belong to the same set class is a "right-to-lefty" and the other is a "left-to-righty" then the two pc sets are related by inversion.

pc set A pc set B

[6            t            e]                                [8            9            1]  
(0            1            5)                                (0            1            5)

if you have three notes that are inverted imagine that you have a series of six notes-- three to start and three that result from inversion.

1 maps onto 6; 2 maps onto 5; 3 maps onto 4.

so 6 maps onto 1; t maps onto 9; and e maps onto 8; instead of "maps onto" imagine math.

$$6 + 1 = 7; t + 9 = 19 = 7; e + 8 = 19 = 7. \text{ therefore TI7 A = B}$$

Or: remember in inversion: Invert, Retrograde, Transpose.

Begin with pc set [6te]; invert to [621]; retrograde to [126] transpose 7 half steps to [891].