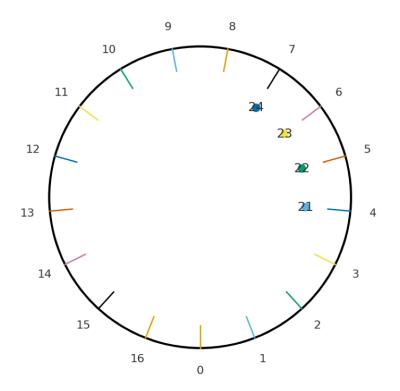
# K4 Indices by Class (six-track skeleton)

Class 0: 00 06 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96 Class 1: 04 10 16 22 28 34 40 46 52 58 64 70 76 82 88 94 Class 2: 02 08 14 20 26 32 38 44 50 56 62 68 74 80 86 92 Class 3: 03 09 15 21 27 33 39 45 51 57 63 69 75 81 87 93 Class 4: 01 07 13 19 25 31 37 43 49 55 61 67 73 79 85 91

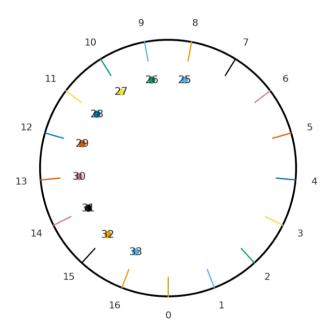
Legend: anchors at EAST(21–24), NORTHEAST(25–33), BERLIN(63–68), CLOCK(69–73); tail indices 75–96.

Class 5: 05 11 17 23 29 35 41 47 53 59 65 71 77 83 89 95

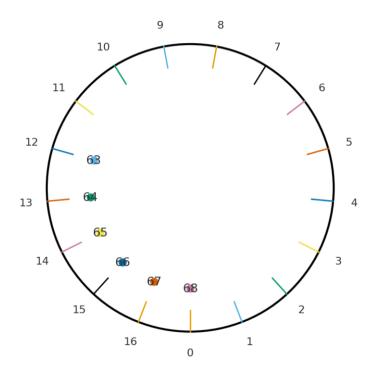
# Anchor 'EAST': slots for indices 21-24



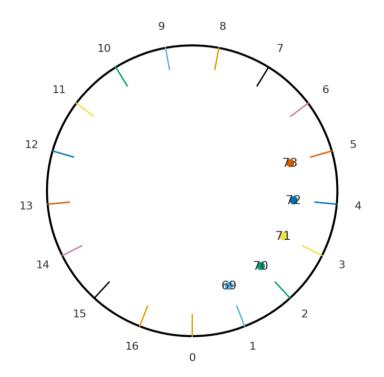
#### Anchor 'NORTHEAST': slots for indices 25-33



## Anchor 'BERLIN': slots for indices 63-68



## Anchor 'CLOCK': slots for indices 69-73



#### Tail Worked Example (indices 80–84)

```
Worked arithmetic (mod 26): 
i=80: class=2, family=beaufort, slot=12, K=7 \rightarrow P = K - C = 7 - 19 (mod 26) \rightarrow '0' 
i=81: class=3, family=vigenere, slot=13, K=4 \rightarrow P = C - K = 9 - 4 (mod 26) \rightarrow 'F' 
i=82: class=1, family=vigenere, slot=14, K=2 \rightarrow P = C - K = 2 - 2 (mod 26) \rightarrow 'A' 
i=83: class=5, family=vigenere, slot=15, K=16 \rightarrow P = C - K = 3 - 16 (mod 26) \rightarrow 'N' 
i=84: class=0, family=vigenere, slot=16, K=8 \rightarrow P = C - K = 8 - 8 (mod 26) \rightarrow 'A'
```

```
Ciphertext: T J C D I Plaintext: O F A N A
```

#### Round-trip & Drop-crib Schematic (conceptual)

```
Round-trip check (any span): P --encrypt(family,K)--> C --decrypt(family,K)--> P
```

```
Anchor-only rebuild (drop-crib tests):
```

- Drop BERLIN (63-68): undetermined → '??????'
- Drop CLOCK (69-73): undetermined → '?????'
   Drop BOTH (63-73): undetermined → '?????????'

Interpretation: when a crib is removed, those wheel slots remain unknown; nothing is 'hallucinated' back.