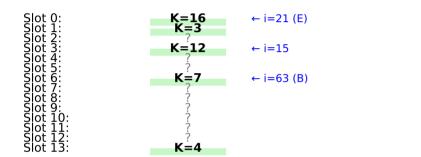
Fresh-State K4 Derivation

| Class 0: | 0 | 6 | 12 | ₁ €ip | he <u>rt</u> ez | xt 🔥 Cri | bs₃€ I | Par <u>ti</u> al i | Plainte | ext ₄ No | Al ₆₀ Nc | Gyess | sing) | 78 | 84 | 90 | 96 |
|----------|---|----|----|--------------|-----------------|----------|--------|--------------------|-----------|---------------------|---------------------|-------|-------|----|----|----|----|
| Class 1: | 1 | 7 | 13 | 19 | 25 | 31 | 37 | 43 | 49 | 55 | 61 | 67 | 73 | 79 | 85 | 91 | |
| Class 2: | 2 | 8 | 14 | 20 | 26 | 32 | 38 | 44 | 50 | 56 | 62 | 68 | 74 | 80 | 86 | 92 | |
| Class 3: | 3 | 9 | 15 | 21 | 27 | 33 | 39 | 45 | 51 | 57 | 63 | 69 | 75 | 81 | 87 | 93 | |
| Class 4: | 4 | 10 | 16 | 22 | 28 | 34 | 40 | 46 | 52 | 58 | 64 | 70 | 76 | 82 | 88 | 94 | |
| Class 5: | 5 | 11 | 17 | 23 | 29 | 35 | 41 | 47 | 53 | 59 | 65 | 71 | 77 | 83 | 89 | 95 | |

Wheel Example (Class 3)

Decrypt Rules



Vigenère: P = C - K (mod 26) Beaufort:

 $P = K - C \pmod{26}$

Variant:

 $P = C + K \pmod{26}$

Tail Region (Positions 74-96)

| 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 |
|----|----------------|----|----|----|----|----|----|----|----|----|----|
| ? | 75 ? | ? | ? | ? | ? | ? | ? | R | E | G | X |
| | | | | | | | | | | | |
| 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | |
| U | 87 T | ? | J | 0 | Y | Q | G | M | | C | |

Derivation Results

| Cribs Used | Derived | Unknown | |
|---|---------|---------|--|
| 4 anchors (EAST, NE, BERLIN, CLOCK) | 71 | 26 | |
| 3 anchors (no BERLIN) | 58 | 39 | |
| 3 anchors (no CLOCK) | 57 | 40 | |
| 2 anchors (EAST, NE) | 43 | 54 | |