Settings of test systems

I. Modified IEEE 9-bus system

A. Connection structure

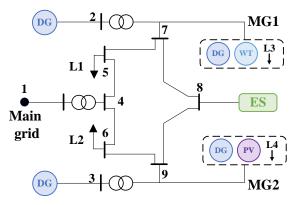


Fig. 1. The diagram of the modified IEEE 9-bus system.

B. Network parameters

TABLE I NETWORK PARAMETERS

| Line index | From bus | To bus | r (\O) | x (Ω) |
|------------|----------|--------|--------|--------|
| 1 | 1 | 4 | 0 | 0.0576 |
| 2 | 4 | 6 | 0.017 | 0.092 |
| 3 | 6 | 9 | 0.039 | 0.17 |
| 4 | 3 | 9 | 0 | 0.0586 |
| 5 | 8 | 9 | 0.0119 | 0.1008 |
| 6 | 7 | 8 | 0.0085 | 0.072 |
| 7 | 2 | 7 | 0 | 0.0625 |
| 8 | 5 | 7 | 0.032 | 0.161 |
| 9 | 4 | 5 | 0.01 | 0.085 |

C. Units parameters

TABLE II GENERATORS PARAMETERS

| G | $P_{i,\mathrm{max}}^{\mathrm{G}}$ | $P_{i,\mathrm{min}}^{\mathrm{G}}$ | $R_i^{ m G}$ | $a_i^{ m G}$ | $b_i^{ m G}$ | $c_i^{\scriptscriptstyle \mathrm{G}}$ |
|---|-----------------------------------|-----------------------------------|--------------|--------------|--------------|---------------------------------------|
| 5 | (kW) | (kW) | (kW/h) | $(\$/kW^2h)$ | (\$/kWh) | (\$) |
| 2 | 900 | 0 | 500 | 4.05e-5 | 0.028 | 0.3784 |
| 3 | 1200 | 0 | 800 | 3.53e-5 | 0.032 | 0.7432 |
| 7 | 600 | 0 | 400 | 3.00e-5 | 0.025 | 0.4124 |
| 9 | 1000 | 0 | 500 | 3.20e-5 | 0.021 | 0.3786 |

TABLE III ENERGY STORAGE PARAMETERS

| ${\cal E}$ | $P_{i,\max}^{E}$ (kW) | $E_{i,\max}$ (kWh) | $E_{i,\min}$ (kWh) | b_i^E (\$/kWh) | c _i ^E (\$) | η_i |
|------------|-----------------------|--------------------|--------------------|------------------|-------------------------------------|----------|
| 8 | 100 | 800 | 0 | 1.351e-6 | 0.074 | 0.95 |

II. MODIFIED IEEE 33-BUS SYSTEM

A. Connection structure

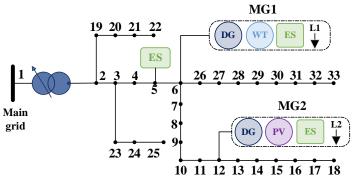


Fig. 2. The diagram of the modified IEEE 33-bus system.

B. Network parameters

TABLE IV NETWORK PARAMETERS

| Line index | From bus | To bus | r (Ω) | x (Ω) |
|------------|----------|--------|--------|--------|
| 1 | 1 | 2 | 0.0922 | 0.0470 |
| 2 | 2 | 3 | 0.4390 | 0.2511 |
| 3 | 3 | 4 | 0.3660 | 0.1864 |
| 4 | 4 | 5 | 0.3811 | 0.1941 |
| 5 | 5 | 6 | 0.8190 | 0.7070 |
| 6 | 6 | 7 | 0.1872 | 0.6188 |
| 7 | 7 | 8 | 0.7114 | 0.2351 |
| 8 | 8 | 9 | 1.0300 | 0.7400 |
| 9 | 9 | 10 | 1.0440 | 0.7400 |
| 10 | 10 | 11 | 0.1966 | 0.0650 |
| 11 | 11 | 12 | 0.3744 | 0.1238 |
| 12 | 12 | 13 | 1.4680 | 1.1550 |
| 13 | 13 | 14 | 0.5416 | 0.7129 |
| 14 | 14 | 15 | 0.5910 | 0.5260 |
| 15 | 15 | 16 | 0.7463 | 0.5450 |
| 16 | 16 | 17 | 1.2890 | 1.7210 |
| 17 | 17 | 18 | 0.7320 | 0.5740 |
| 18 | 2 | 19 | 0.1640 | 0.1565 |
| 19 | 19 | 20 | 1.5042 | 1.3554 |
| 20 | 20 | 21 | 0.4095 | 0.4784 |
| 21 | 21 | 22 | 0.7089 | 0.9373 |
| 22 | 3 | 23 | 0.4512 | 0.3083 |
| 23 | 23 | 24 | 0.8980 | 0.7091 |
| 24 | 24 | 25 | 0.8960 | 0.7011 |
| 25 | 6 | 26 | 0.2030 | 0.1034 |
| 26 | 26 | 27 | 0.2842 | 0.1447 |
| 27 | 27 | 28 | 1.0590 | 0.9337 |
| 28 | 28 | 29 | 0.8042 | 0.7006 |
| 29 | 29 | 30 | 0.5075 | 0.2585 |
| 30 | 30 | 31 | 0.9744 | 0.9630 |
| 31 | 31 | 32 | 0.3105 | 0.3619 |
| 32 | 32 | 33 | 0.3410 | 0.5302 |

C. Units parameters

TABLE V ENERGY STORAGE PARAMETERS

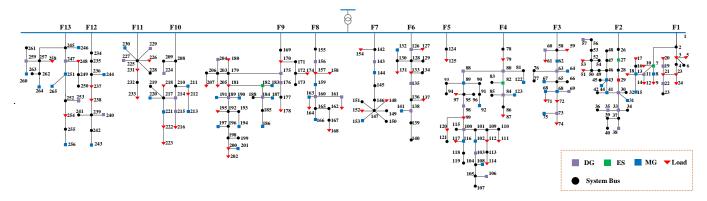
| ε | $P_{i,\mathrm{max}}^E$ | $E_{i,\mathrm{max}}$ | $E_{i, m min}$ | b_i^E | $c_i^{\scriptscriptstyle E}$ | n. | | |
|---------------|------------------------|----------------------|-----------------|----------|------------------------------|------|--|--|
| | (kW) | (kWh) | (kWh) | (\$/kWh) | (\$/kWh) (\$) | | | |
| 5 | 500 | 1000 | 0 | 1.351e-6 | 0.074 | 0.95 | | |
| 6 | 100 | 300 | 0 | 2.045e-6 | 0.085 | 0.95 | | |
| 12 | 100 | 200 | 0 | 1.854e-6 | 0.069 | 0.95 | | |

TABLE VI GENERATOR PARAMETERS

| G | $P_{i,\mathrm{max}}^{\mathrm{G}}$ | $P_{i,\mathrm{min}}^{\mathrm{G}}$ | $R_i^{ m G}$ | $a_i^{ m G}$ | $b_i^{ m G}$ | $c_i^{ m G}$ |
|----|-----------------------------------|-----------------------------------|--------------|--------------|--------------|--------------|
| 5 | (kW) | (kW) | (kW/h) | $(\$/kW^2h)$ | (\$/kWh) | (\$) |
| 6 | 1000 | 0 | 500 | 3.00e-5 | 0.029 | 0.3784 |
| 10 | 1000 | 0 | 500 | 4.50e-5 | 0.042 | 0.7462 |
| 12 | 900 | 0 | 400 | 3.20e-5 | 0.024 | 0.4124 |
| 19 | 1200 | 0 | 600 | 3.40e-5 | 0.052 | 0.3898 |
| 23 | 1500 | 0 | 800 | 3.90e-5 | 0.032 | 0.6582 |
| 30 | 1000 | 0 | 500 | 4.10e-5 | 0.028 | 0.4686 |

III. A REAL 265-BUS SYSTEM

A. Connection structure



B. Network parameters

TABLE VII GENERATOR PARAMETERS

| Line index | From bus | To bus | $r\left(\Omega\right)$ | x (Ω) | Line index | From bus | To bus | $r(\Omega)$ | x (Ω) |
|------------|----------|--------|-------------------------|---------|------------|----------|--------|-------------|---------|
| 1 | 1 | 2 | 0.00122 | 0.00202 | 133 | 126 | 127 | 0.02133 | 0.03543 |
| 2 | 1 | 26 | 0.00112 | 0.00186 | 134 | 126 | 128 | 0.00152 | 0.00253 |
| 3 | 1 | 58 | 0.09001 | 0.14947 | 135 | 128 | 129 | 0.00244 | 0.00405 |
| 4 | 1 | 78 | 0.00157 | 0.00261 | 136 | 128 | 130 | 0.00036 | 0.00059 |
| 5 | 1 | 124 | 0.00065 | 0.00108 | 137 | 128 | 133 | 0.01595 | 0.02649 |
| 6 | 1 | 126 | 0.00138 | 0.0023 | 138 | 130 | 131 | 0.00102 | 0.00169 |
| 7 | 1 | 142 | 0.00193 | 0.00321 | 139 | 130 | 132 | 0.00025 | 0.00042 |
| 8 | 1 | 155 | 0.02743 | 0.04555 | 140 | 133 | 134 | 0.00005 | 0.00008 |
| 9 | 1 | 169 | 0.04841 | 0.08039 | 141 | 133 | 135 | 0.00254 | 0.00422 |
| 10 | 1 | 208 | 0.03982 | 0.06613 | 142 | 135 | 136 | 0.01224 | 0.02033 |
| 11 | 1 | 225 | 0.33227 | 0.55181 | 143 | 136 | 137 | 0.0093 | 0.01544 |
| 12 | 1 | 234 | 0.00223 | 0.00371 | 144 | 136 | 138 | 0.01102 | 0.0183 |
| 13 | 1 | 245 | 0.01077 | 0.01788 | 145 | 138 | 139 | 0.00051 | 0.00084 |
| 14 | 2 | 3 | 0.01234 | 0.0205 | 146 | 138 | 141 | 0.00195 | 0.00324 |
| 15 | 2 | 7 | 0.05698 | 0.09462 | 147 | 139 | 140 | 0.0065 | 0.0108 |
| 16 | 3 | 4 | 0.01625 | 0.02699 | 148 | 142 | 143 | 0.06197 | 0.10291 |
| 17 | 3 | 5 | 0.00406 | 0.00675 | 149 | 142 | 154 | 0.00508 | 0.00844 |
| 18 | 3 | 6 | 0.01082 | 0.01797 | 150 | 143 | 144 | 0.12424 | 0.20633 |
| 19 | 7 | 8 | 0.0093 | 0.01544 | 151 | 144 | 145 | 0.00223 | 0.00371 |
| 20 | 7 | 10 | 0.0033 | 0.00548 | 152 | 145 | 146 | 0.00104 | 0.00172 |
| 21 | 7 | 11 | 0.00497 | 0.00825 | 153 | 146 | 147 | 0.00064 | 0.00106 |
| 22 | 7 | 19 | 0.00547 | 0.00908 | 154 | 147 | 148 | 0.00112 | 0.00186 |
| 23 | 8 | 9 | 0.00053 | 0.00089 | 155 | 147 | 149 | 0.00091 | 0.00152 |
| 24 | 11 | 12 | 0.00503 | 0.00835 | 156 | 147 | 150 | 0.00046 | 0.00076 |
| 25 | 11 | 13 | 0.00924 | 0.01535 | 157 | 147 | 151 | 0.00041 | 0.00067 |
| 26 | 13 | 14 | 0.00853 | 0.01417 | 158 | 147 | 152 | 0.00066 | 0.0011 |
| 27 | 13 | 16 | 0.00335 | 0.00557 | 159 | 147 | 153 | 0.00914 | 0.01518 |
| 28 | 13 | 18 | 0.00046 | 0.00076 | 160 | 155 | 156 | 0.00051 | 0.00084 |
| 29 | 14 | 15 | 0.00091 | 0.00152 | 161 | 156 | 157 | 0.00965 | 0.01603 |
| 30 | 16 | 17 | 0.0005 | 0.00083 | 162 | 157 | 158 | 0.00635 | 0.01054 |
| 31 | 19 | 20 | 0.00061 | 0.00101 | 163 | 157 | 159 | 0.0029 | 0.00481 |
| 32 | 20 | 21 | 0.00005 | 0.00008 | 164 | 159 | 160 | 0.00462 | 0.00768 |
| 33 | 21 | 22 | 0.00009 | 0.00015 | 165 | 160 | 161 | 0.00036 | 0.00059 |
| 34 | 21 | 23 | 0.00254 | 0.00422 | 166 | 160 | 163 | 0.01107 | 0.01839 |
| 35 | 22 | 25 | 0.02941 | 0.04884 | 167 | 160 | 165 | 0.01402 | 0.02328 |
| 36 | 23 | 24 | 0.00036 | 0.00059 | 168 | 161 | 162 | 0.00254 | 0.00422 |
| 37 | 26 | 27 | 0.01244 | 0.02067 | 169 | 163 | 164 | 0.0004 | 0.00066 |
| 38 | 27 | 28 | 0.06131 | 0.10181 | 170 | 165 | 166 | 0.00051 | 0.00084 |
| 39 | 28 | 29 | 0.06141 | 0.10198 | 171 | 165 | 167 | 0.01117 | 0.01856 |
| 40 | 29 | 30 | 0.04231 | 0.07027 | 172 | 167 | 168 | 0.00112 | 0.00186 |
| 41 | 30 | 31 | 0.00071 | 0.00118 | 173 | 169 | 170 | 0.06095 | 0.10122 |
| 42 | 30 | 32 | 0.00046 | 0.00076 | 174 | 170 | 171 | 0.00569 | 0.00945 |
| 43 | 30 | 33 | 0.01636 | 0.02716 | 175 | 170 | 175 | 0.00894 | 0.01485 |
| 44 | 30 | 41 | 0.00274 | 0.00456 | 176 | 171 | 172 | 0.00051 | 0.00084 |
| /15 | 33 | 34 | 0.00716 | 0.01189 | 177 | 172 | 173 | 0.00051 | 0.00084 |
| 45 46 | 33 | 35 | 0.00036 | 0.00059 | 178 | 172 | 174 | 0.00051 | 0.00084 |

| 47 | 33 | 37 | 0.00091 | 0.00151 | 179 | 175 | 176 | 0.00462 | 0.00768 |
|-----|-----|-----|---------|---------|-----|-----|-----|---------|---------|
| 48 | 35 | 36 | 0.0002 | 0.00034 | 180 | 175 | 179 | 0.03774 | 0.06267 |
| 49 | 37 | 38 | 0.00696 | 0.01156 | 181 | 176 | 177 | 0.00574 | 0.00267 |
| | | | | | | | | | |
| 50 | 37 | 39 | 0.00051 | 0.00084 | 182 | 177 | 178 | 0.00076 | 0.00127 |
| 51 | 39 | 40 | 0.00005 | 0.00008 | 183 | 179 | 180 | 0.01559 | 0.0259 |
| 52 | 41 | 42 | 0.00061 | 0.00101 | 184 | 179 | 181 | 0.0223 | 0.03703 |
| 53 | 41 | 43 | 0.00076 | 0.00127 | 185 | 179 | 203 | 0.00381 | 0.00633 |
| 54 | 43 | 44 | 0.00273 | 0.00454 | 186 | 181 | 182 | 0.00005 | 0.00008 |
| | | | | | | | | | |
| 55 | 43 | 45 | 0.00036 | 0.00059 | 187 | 181 | 189 | 0.00056 | 0.00093 |
| 56 | 43 | 46 | 0.00554 | 0.00919 | 188 | 182 | 183 | 0.00061 | 0.00101 |
| 57 | 46 | 47 | 0.00046 | 0.00076 | 189 | 182 | 184 | 0.02184 | 0.03627 |
| 58 | 46 | 49 | 0.01346 | 0.02235 | 190 | 184 | 185 | 0.00879 | 0.01459 |
| 59 | 47 | 48 | 0.00081 | 0.00135 | 191 | 184 | 187 | 0.00036 | 0.00059 |
| | | | | | | | | | |
| 60 | 49 | 50 | 0.00025 | 0.00042 | 192 | 184 | 188 | 0.00538 | 0.00894 |
| 61 | 50 | 51 | 0.00046 | 0.00076 | 193 | 185 | 186 | 0.00046 | 0.00076 |
| 62 | 50 | 52 | 0.0129 | 0.02143 | 194 | 189 | 190 | 0.01986 | 0.03298 |
| 63 | 52 | 53 | 0.00635 | 0.01054 | 195 | 189 | 191 | 0.00792 | 0.01316 |
| 64 | 52 | 54 | 0.00051 | 0.00084 | 196 | 189 | 192 | 0.00508 | 0.00844 |
| | | | | | | | | | |
| 65 | 52 | 55 | 0.00036 | 0.00059 | 197 | 192 | 193 | 0.02865 | 0.04758 |
| 66 | 55 | 56 | 0.0064 | 0.01063 | 198 | 192 | 195 | 0.00051 | 0.00084 |
| 67 | 56 | 57 | 0.00041 | 0.00067 | 199 | 192 | 196 | 0.00239 | 0.00396 |
| 68 | 58 | 59 | 0.00315 | 0.00523 | 200 | 193 | 194 | 0.0029 | 0.00481 |
| 69 | 58 | 60 | 0.00046 | 0.00077 | 201 | 196 | 197 | 0.00137 | 0.00228 |
| | | | | | | | | | |
| 70 | 58 | 62 | 0.01966 | 0.03264 | 202 | 196 | 198 | 0.00213 | 0.00354 |
| 71 | 60 | 61 | 0.01514 | 0.02514 | 203 | 198 | 199 | 0.01366 | 0.02269 |
| 72 | 62 | 63 | 0.00036 | 0.00059 | 204 | 198 | 200 | 0.01717 | 0.02851 |
| 73 | 63 | 64 | 0.00437 | 0.00725 | 205 | 200 | 201 | 0.00559 | 0.00928 |
| 74 | 63 | 65 | 0.0003 | 0.00051 | 206 | 200 | 202 | 0.00046 | 0.00076 |
| | | | | | | | | | |
| 75 | 63 | 76 | 0.00513 | 0.00852 | 207 | 203 | 204 | 0.00051 | 0.00084 |
| 76 | 65 | 66 | 0.01189 | 0.01974 | 208 | 203 | 205 | 0.00046 | 0.00076 |
| 77 | 65 | 67 | 0.02072 | 0.03442 | 209 | 203 | 206 | 0.00051 | 0.00084 |
| 78 | 65 | 68 | 0.01666 | 0.02767 | 210 | 203 | 207 | 0.0002 | 0.00034 |
| 79 | 68 | 69 | | | | | 209 | | |
| | | | 0.00188 | 0.00312 | 211 | 208 | | 0.01051 | 0.01746 |
| 80 | 68 | 70 | 0.01173 | 0.01949 | 212 | 208 | 210 | 0.00655 | 0.01088 |
| 81 | 68 | 72 | 0.00178 | 0.00295 | 213 | 209 | 224 | 0.0003 | 0.00051 |
| 82 | 70 | 71 | 0.00904 | 0.01501 | 214 | 210 | 211 | 0.01214 | 0.02016 |
| 83 | 72 | 73 | 0.00025 | 0.00042 | 215 | 210 | 214 | 0.00117 | 0.00194 |
| 84 | 73 | 74 | 0.01265 | 0.021 | 216 | 211 | 212 | 0.00062 | 0.00104 |
| | | | | | | | | | |
| 85 | 73 | 75 | 0.04663 | 0.07744 | 217 | 212 | 213 | 0.00048 | 0.00079 |
| 86 | 76 | 77 | 0.00137 | 0.00228 | 218 | 214 | 215 | 0.00234 | 0.00388 |
| 87 | 78 | 79 | 0.02225 | 0.03695 | 219 | 214 | 217 | 0.00726 | 0.01206 |
| 88 | 79 | 80 | 0.08833 | 0.14669 | 220 | 215 | 216 | 0.0003 | 0.00051 |
| 89 | 80 | 81 | 0.02067 | 0.03433 | 221 | 217 | 218 | 0.00025 | 0.00042 |
| | | | | | | | | | |
| 90 | 80 | 82 | 0.0382 | 0.06343 | 222 | 217 | 219 | 0.00173 | 0.00287 |
| 91 | 80 | 88 | 0.01377 | 0.02286 | 223 | 217 | 220 | 0.00163 | 0.0027 |
| 92 | 81 | 122 | 0.02133 | 0.03543 | 224 | 217 | 221 | 0.00081 | 0.00135 |
| 93 | 82 | 83 | 0.0003 | 0.00051 | 225 | 221 | 222 | 0.0253 | 0.04201 |
| 94 | 82 | 84 | 0.00025 | 0.00042 | 226 | 222 | 223 | 0.00046 | 0.00076 |
| | | | | | | | | | |
| 95 | 84 | 85 | 0.00701 | 0.01164 | 227 | 225 | 226 | 0.00051 | 0.00084 |
| 96 | 84 | 86 | 0.00132 | 0.00219 | 228 | 225 | 227 | 0.02022 | 0.03358 |
| 97 | 84 | 123 | 0.0003 | 0.00051 | 229 | 225 | 228 | 0.02321 | 0.03854 |
| 98 | 86 | 87 | 0.00041 | 0.00067 | 230 | 225 | 229 | 0.02338 | 0.03883 |
| 99 | 88 | 89 | 0.06151 | 0.10215 | 231 | 225 | 230 | 0.01833 | 0.03043 |
| 100 | 89 | 90 | 0.00101 | 0.00169 | 232 | 225 | 231 | 0.00759 | 0.0126 |
| | | | | | | | | | |
| 101 | 89 | 93 | 0.0158 | 0.02623 | 233 | 231 | 232 | 0.01135 | 0.01885 |
| 102 | 89 | 95 | 0.00025 | 0.00042 | 234 | 232 | 233 | 0.01272 | 0.02113 |
| 103 | 91 | 92 | 0.00046 | 0.00076 | 235 | 234 | 235 | 0.07096 | 0.11784 |
| 104 | 92 | 93 | 0.00041 | 0.00067 | 236 | 235 | 236 | 0.07609 | 0.12636 |
| 105 | 93 | 94 | 0.00025 | 0.00042 | 237 | 236 | 237 | 0.00665 | 0.01105 |
| | | | | | | | | | |
| 106 | 95 | 96 | 0.02088 | 0.03467 | 238 | 236 | 244 | 0.00066 | 0.0011 |
| 107 | 95 | 97 | 0.00919 | 0.01527 | 239 | 237 | 238 | 0.00233 | 0.00387 |
| 108 | 95 | 98 | 0.0003 | 0.00051 | 240 | 238 | 239 | 0.00183 | 0.00304 |
| 109 | 98 | 99 | 0.02138 | 0.03551 | 241 | 239 | 240 | 0.0003 | 0.00051 |
| 110 | 99 | 100 | 0.01813 | 0.03011 | 242 | 239 | 241 | 0.00274 | 0.00456 |
| | 99 | | | | | | | | |
| 111 | | 120 | 0.00706 | 0.01173 | 243 | 239 | 242 | 0.00305 | 0.00506 |
| 112 | 100 | 101 | 0.0002 | 0.00034 | 244 | 242 | 243 | 0.00071 | 0.00118 |
| 113 | 100 | 115 | 0.02606 | 0.04327 | 245 | 245 | 246 | 0.0189 | 0.03138 |
| 114 | 100 | 116 | 0.02352 | 0.03906 | 246 | 245 | 257 | 0.00208 | 0.00346 |
| 115 | 101 | 102 | 0.00036 | 0.00059 | 247 | 246 | 251 | 0.0003 | 0.00051 |
| 116 | 101 | 109 | 0.00483 | 0.00801 | 248 | 246 | 247 | 0.00914 | 0.00031 |
| | | | | | | | | | |
| 117 | 102 | 103 | 0.0029 | 0.00481 | 249 | 247 | 248 | 0.00036 | 0.00059 |
| | | | | | | | | | |

| 118 | 103 | 104 | 0.00036 | 0.00059 | 250 | 248 | 249 | 0.00015 | 0.00025 |
|-----|-----|-----|---------|---------|-----|-----|-----|---------|---------|
| 119 | 104 | 105 | 0.0002 | 0.00034 | 251 | 249 | 250 | 0.00046 | 0.00076 |
| 120 | 104 | 108 | 0.00041 | 0.00067 | 252 | 251 | 252 | 0.00117 | 0.00194 |
| 121 | 105 | 106 | 0.00056 | 0.00093 | 253 | 251 | 265 | 0.00254 | 0.00422 |
| 122 | 105 | 107 | 0.00056 | 0.00093 | 254 | 252 | 253 | 0.00122 | 0.00202 |
| 123 | 109 | 110 | 0.03571 | 0.0593 | 255 | 252 | 254 | 0.0002 | 0.00034 |
| 124 | 109 | 112 | 0.01148 | 0.01906 | 256 | 254 | 255 | 0.0002 | 0.00034 |
| 125 | 110 | 111 | 0.00041 | 0.00067 | 257 | 255 | 256 | 0.00057 | 0.00094 |
| 126 | 112 | 113 | 0.00071 | 0.00118 | 258 | 257 | 258 | 0.00254 | 0.00422 |
| 127 | 113 | 114 | 0.00076 | 0.00127 | 259 | 257 | 259 | 0.00747 | 0.0124 |
| 128 | 116 | 117 | 0.00477 | 0.00793 | 260 | 257 | 262 | 0.00467 | 0.00776 |
| 129 | 116 | 118 | 0.00173 | 0.00287 | 261 | 259 | 260 | 0.00046 | 0.00076 |
| 130 | 118 | 119 | 0.00036 | 0.00059 | 262 | 259 | 261 | 0.0002 | 0.00034 |
| 131 | 120 | 121 | 0.00508 | 0.00844 | 263 | 262 | 263 | 0.00325 | 0.0054 |
| 132 | 124 | 125 | 0.00475 | 0.00789 | 264 | 262 | 264 | 0.00102 | 0.00169 |