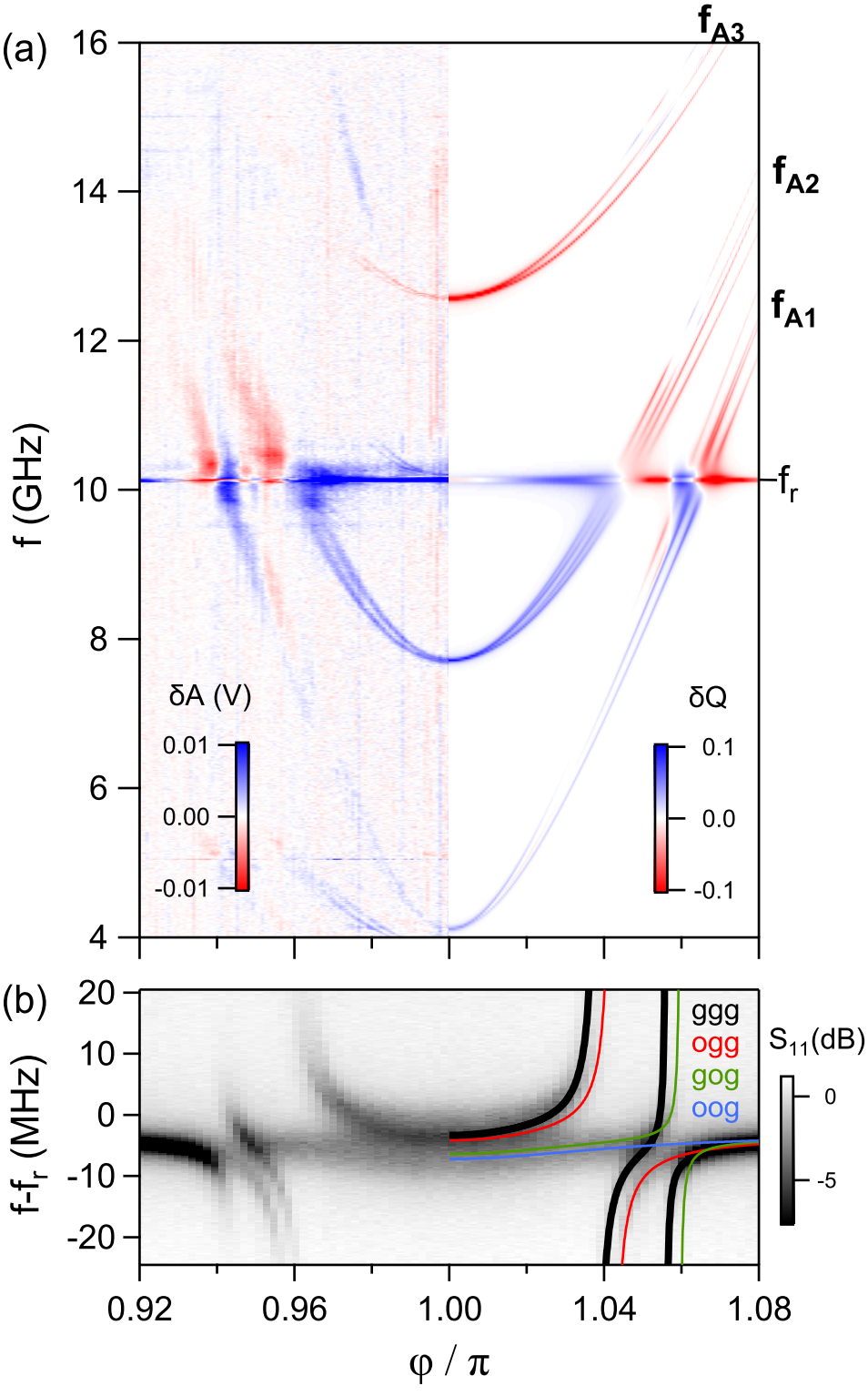
(a)
f (GHz)
16
14
12
10
8
6
4
f_{A3}
f_{A2}
f_{A1}
f_r
δA (V)
0.01
0.00
-0.01
δQ
0.1
0.0
-0.1
(b)
f-f_r (MHz)
20
10
0
-10
-20
ggg
ogg
gog
oog
S_{11}(dB)
0
-5
0.92
0.96
1.00
1.04
1.08
φ / π