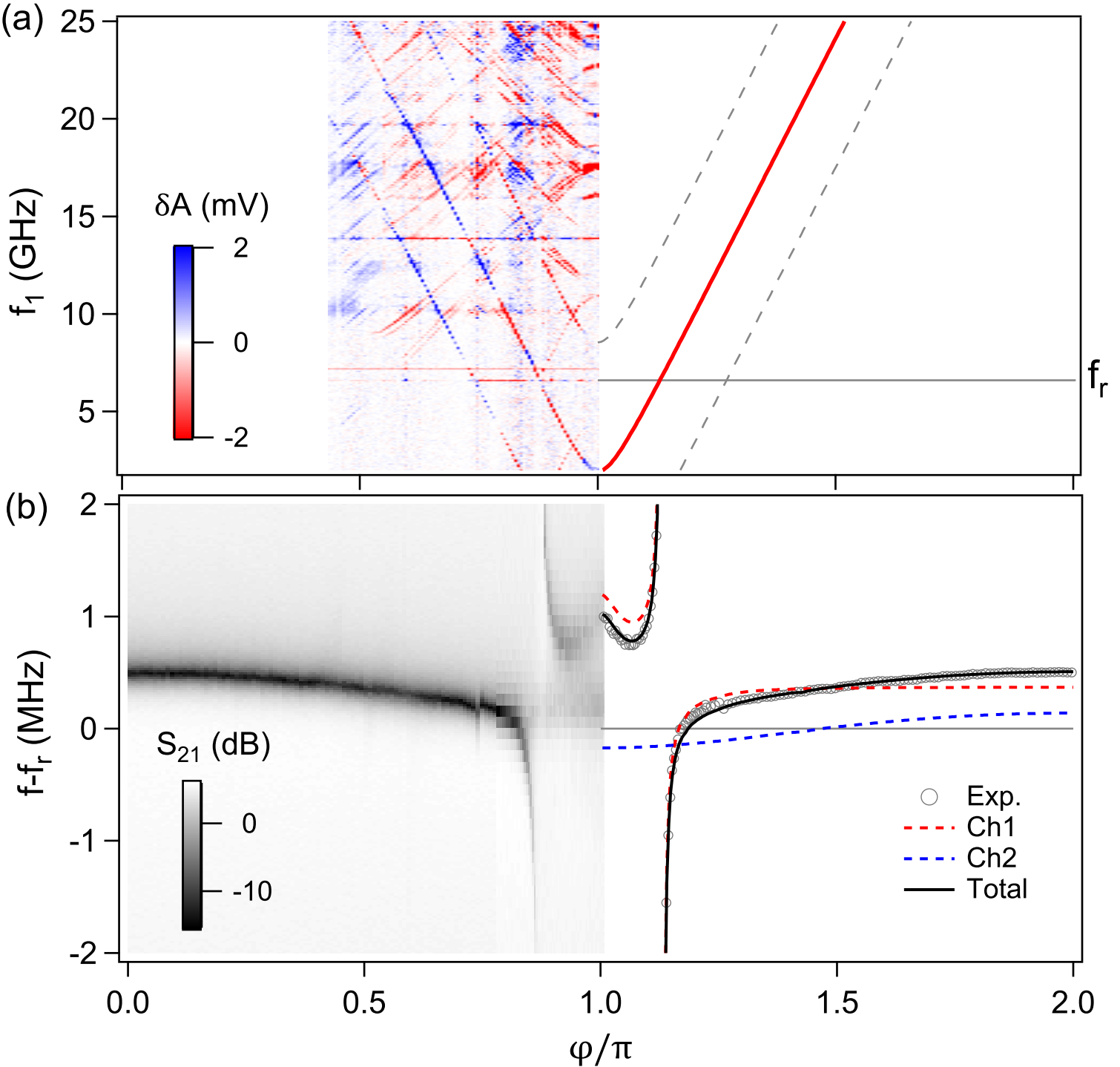
(a)
25
20
15
10
5
f_1 (GHz)
δA (mV)
2
0
-2
f_r
(b)
2
1
0
-1
-2
$f-f_r$ (MHz)
S_{21} (dB)
0
-10
Exp.
Ch1
Ch2
Total
0.0
0.5
1.0
1.5
2.0
φ/π