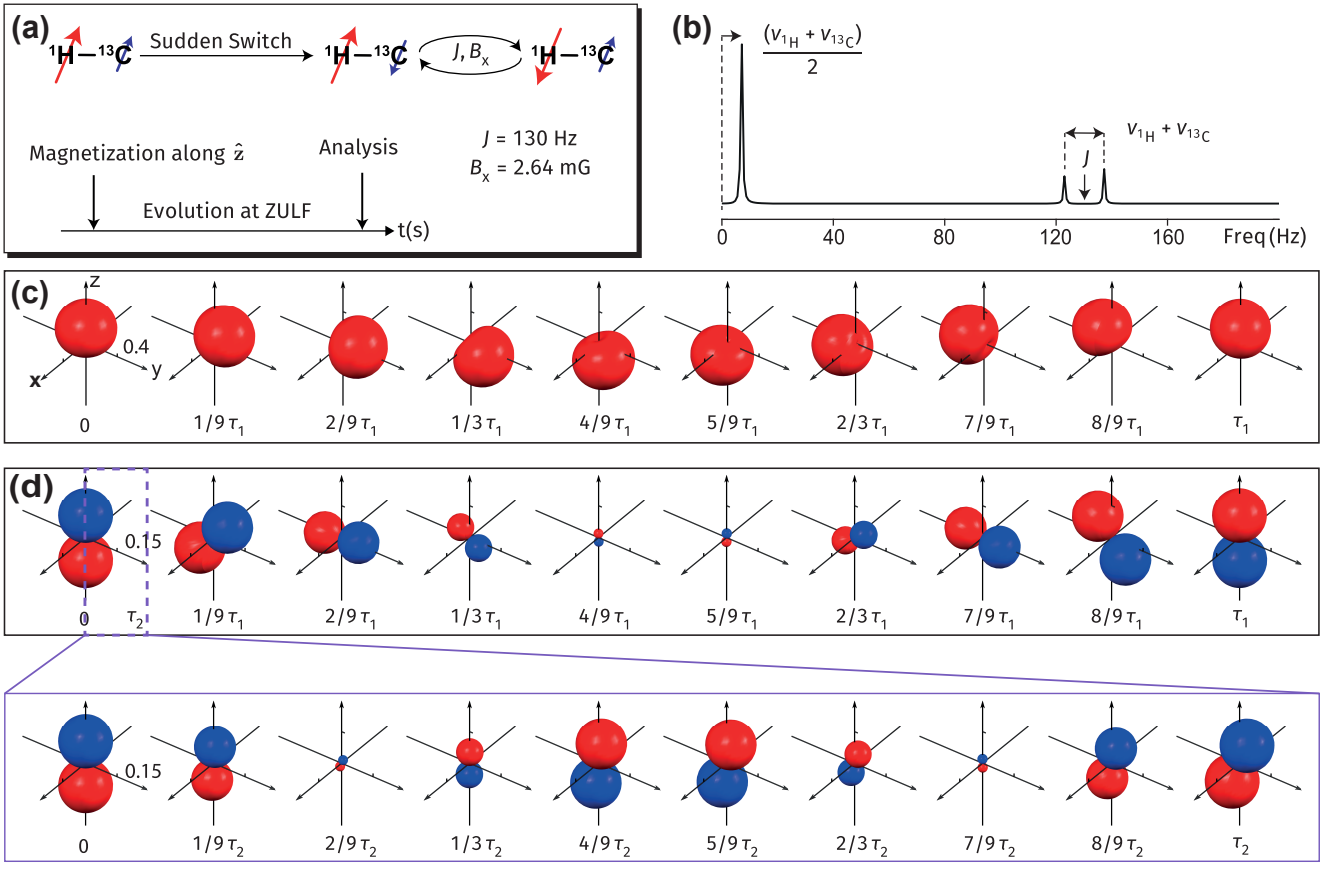
(a)
Sudden Switch
J, B_x
Magnetization along ẑ
Analysis
Evolution at ZULF
t(s)
J = 130 Hz
B_x = 2.64 mG
(b)
(ν_1H + ν_13C) / 2
ν_1H + ν_13C
J
0
40
80
120
160
Freq (Hz)
(c)
z
x
y
0.4
0
1/9 τ_1
2/9 τ_1
1/3 τ_1
4/9 τ_1
5/9 τ_1
2/3 τ_1
7/9 τ_1
8/9 τ_1
τ_1
(d)
0.15
0
τ_2
1/9 τ_1
2/9 τ_1
1/3 τ_1
4/9 τ_1
5/9 τ_1
2/3 τ_1
7/9 τ_1
8/9 τ_1
τ_1
0.15
0
1/9 τ_2
2/9 τ_2
1/3 τ_2
4/9 τ_2
5/9 τ_2
2/3 τ_2
7/9 τ_2
8/9 τ_2
τ_2