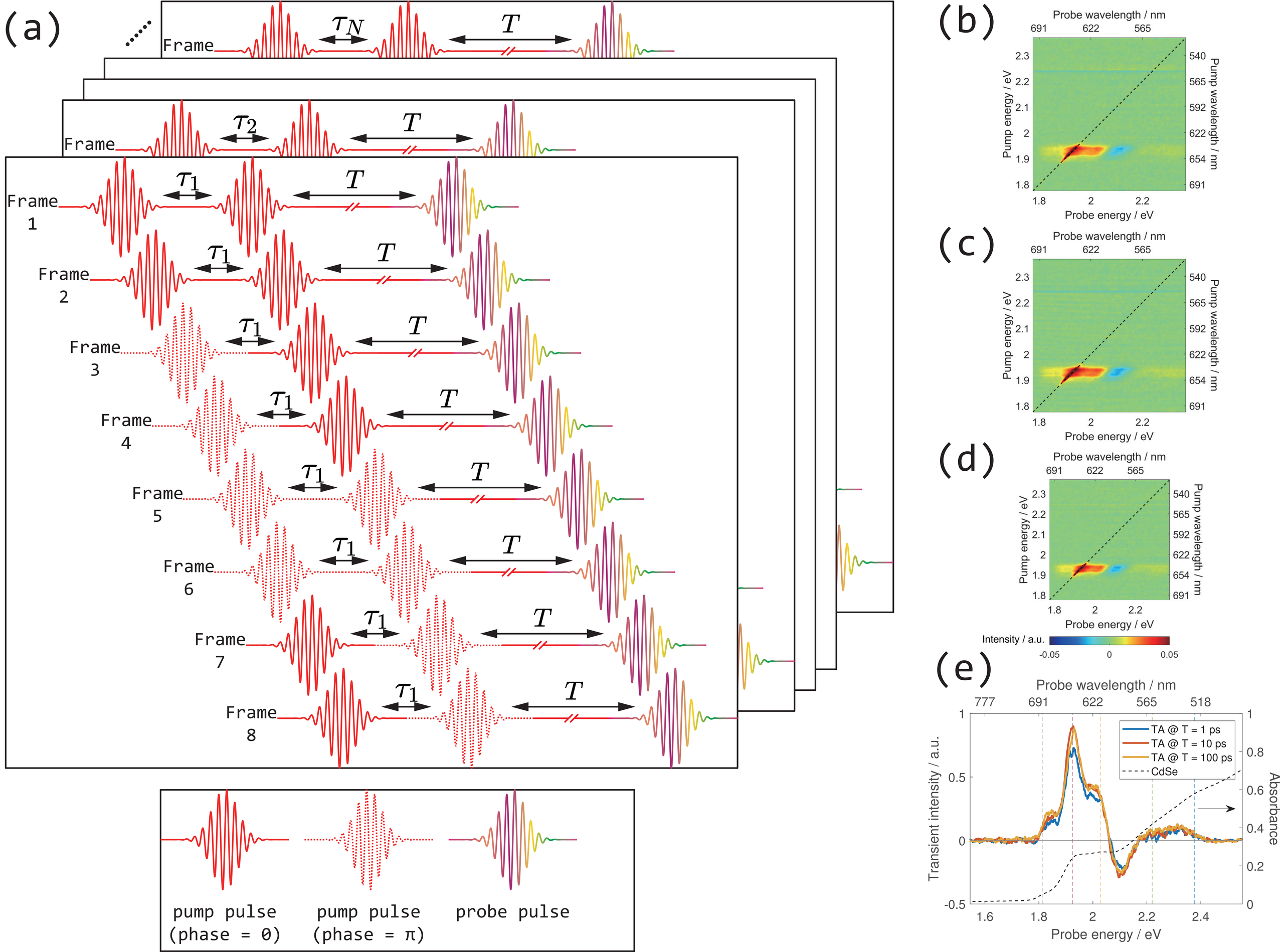
(a)
Frame
τ_N
T
τ_2
τ_1
Frame 1
Frame 2
Frame 3
Frame 4
Frame 5
Frame 6
Frame 7
Frame 8
pump pulse (phase = 0)
pump pulse (phase = π)
probe pulse
(b)
(c)
(d)
Probe wavelength / nm
691
622
565
Pump energy / eV
2.3
2.2
2.1
2
1.9
1.8
Pump wavelength / nm
540
565
592
622
654
691
Probe energy / eV
Intensity / a.u.
-0.05
0
0.05
(e)
Probe wavelength / nm
777
691
622
565
518
TA @ T = 1 ps
TA @ T = 10 ps
TA @ T = 100 ps
CdSe
Transient intensity / a.u.
Absorbance
1
0.5
0
-0.5
0.8
0.6
0.4
0.2
1.6
1.8
2
2.2
2.4
Probe energy / eV