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PulseBlaster(name='pseudoclock 0', board number=0)
  NI PCIe 6363 (name='ni card 0', parent device=pseudoclock 0, clock type='fast clock',
               MAX name='ni pcie 6363 0', clock terminal='/ni pcie 6363 0/PFI0')
  # Channel definitions
  Shutter (name='laser shutter', parent device=ni card 0, connection='port0/line13')
  AnalogOut (name='quadrupole field', parent device=ni card 0, connection='ao0')
  AnalogOut (name='bias x field', parent device=ni card 0, connection='ao1')
(b) # Experiment logic
  start()
  t. = 0
  # first laser pulse at t = 1 second
  t += 1; laser shutter.open(t)
  t += 0.5; laser shutter.close(t)
  t. += 0.4:
  t += quadrupole field.ramp(t, duration=5, initial=0, final=3, samplerate=4) # samplerate in Hz
  # start ramping the bias field 3 seconds before the quadrupole ramp ends
  bias x field.ramp(t-3, duration=1, initial=0, final=2.731, samplerate=8)
  # t is now 6.9s, the end of the quadrupole field ramp
  # second laser pulse
  t += 0.4; laser shutter.open(t)
  t += 1; bias x field.constant(t, value=0.0)
  t += 0.5; laser shutter.close(t)
  t. += 2
  # hold bias field at bias x final field for 2 seconds before finishing shot
  bias x field.constant(t, value=bias x final field)
  t. += 2
```

(a) # Device definitions

stop(t)