;only for topspin 1.3 version
;mfa\_cosy\_relay

#include <Avance.incl>
#include <Grad.incl>

"d0=3u"
"d13=4u"

1 ze
2 d1
3 50u
  p1 ph1
  d0
  d13 UNBLKGRAD
  p16:gp1
  d16
  p1 ph2
  d13
  p16:gp1
  d16
  goscnp ph31
  d13 wr #1
  p16:gp2
  d16
  p1 ph11
  d13
  p16:gp2\*-1
  d16
  goscnp ph31
  d13 wr #2
  p16:gp3\*-1
  d16
  p1 ph11
  d13
  p16:gp3
  d16
  goscnp ph31
  d13 wr #3
  p16:gp4
  d16
  p1 ph11
  d13
  p16:gp4\*-1
  d16 BLKGRAD
  gosc ph31
  d1 wr #4
  lo to 3 times 2
  30u if #1
  30u if #2
  30u if #3
  30u if #4
  30u id0
  lo to 3 times td1

exit

ph1=0 2
ph2=0
ph11=1
ph31=0 2

;pl1 : f1 channel - power level for pulse (default)
;p0 : f1 channel -  20 to 90 degree high power pulse
;p1 : f1 channel -  90 degree high power pulse
;p16: homospoil/gradient pulse
;d0 : incremented delay (2D)                         [3 usec]
;d1 : relaxation delay; 1-5 \* T1
;d13: short delay                                    [4 usec]
;d16: delay for homospoil/gradient recovery
;in0: 1/(1 \* SW) = 2 \* DW
;nd0: 1
;NS: 1 \* n
;DS: 16
;td1: number of experiments
;FnMODE: QF

;use gradient ratio:    gp 1 : gp 2 : gp3 : gp4
;              50 :  30 : 40 : 17

;for z-only gradients:
;gpz1: 50%
;gpz2: 30%

;gpz3: 40%
;gpz4: 17%

;use gradient files:
;gpnam1: SINE.100
;gpnam2: SINE.100
;gpnam3: SINE.100
;gpnam4: SINE.100

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