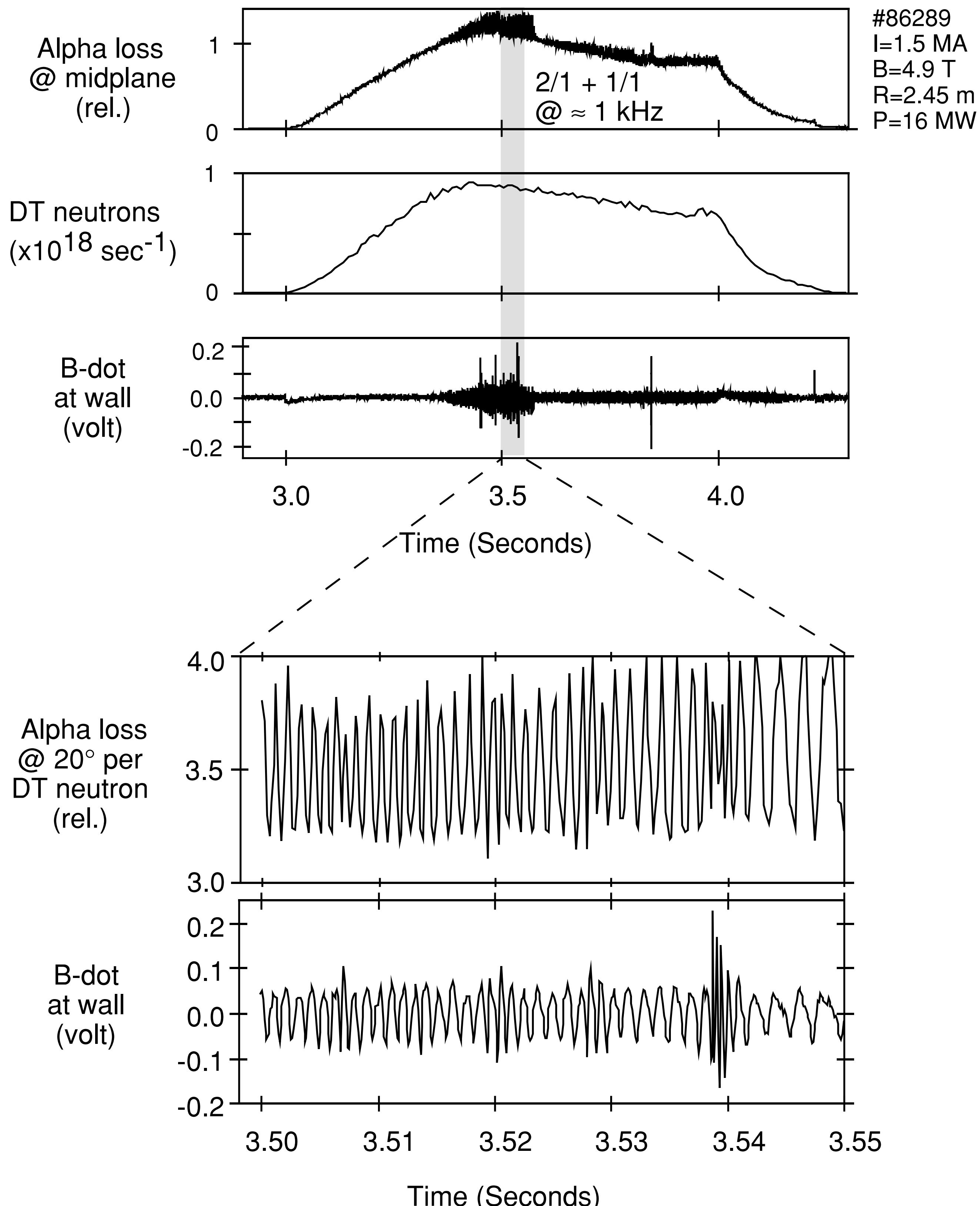
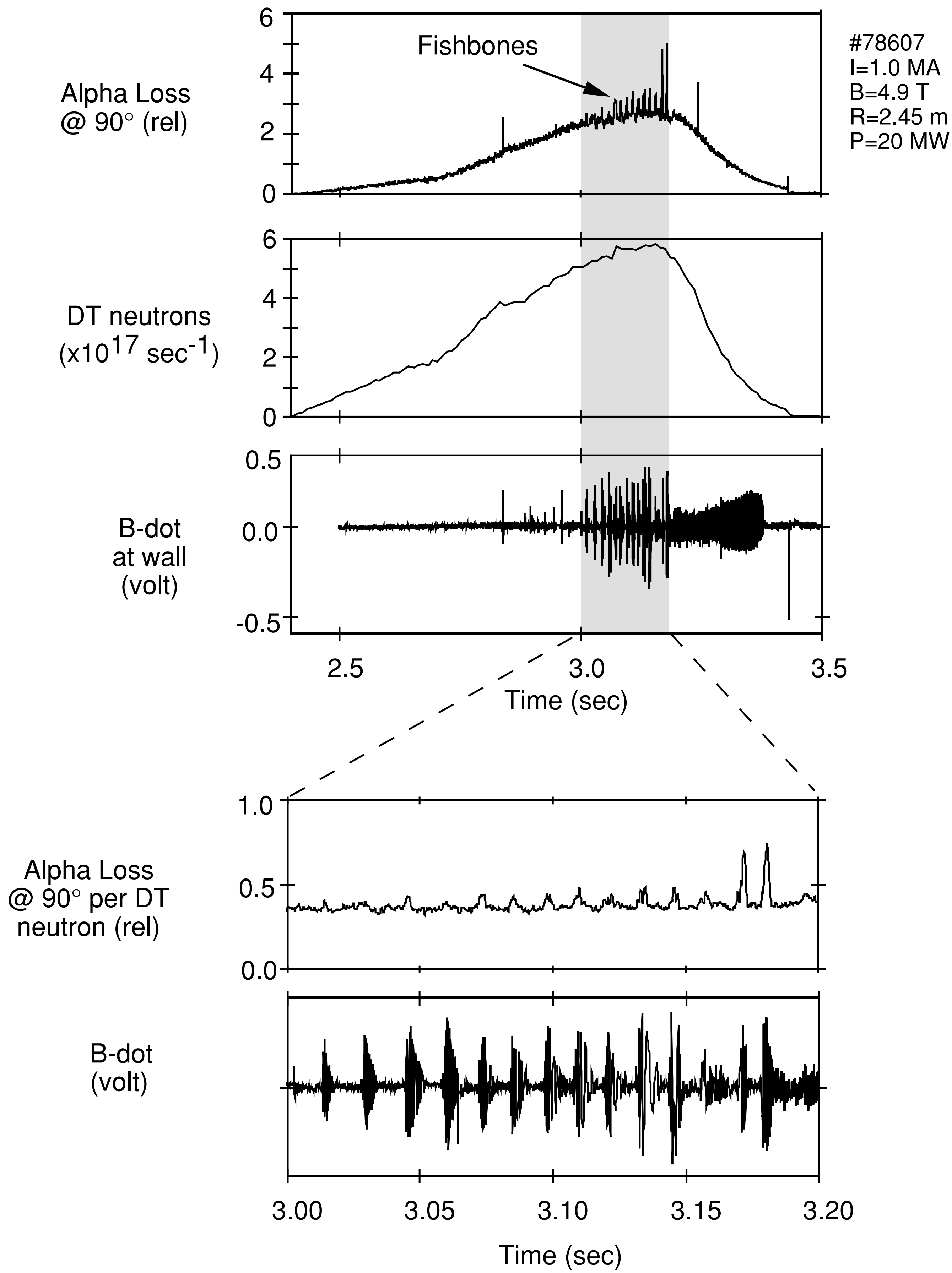

#86289
I=1.5 MA
B=4.9 T
R=2.45 m
P=16 MW
Alpha loss
@ midplane
(rel.)
2/1 + 1/1
@ ≈ 1 kHz
DT neutrons
(x10^18 sec^-1)
B-dot
at wall
(volt)
Time (Seconds)
Alpha loss
@ 20° per
DT neutron
(rel.)
B-dot
at wall
(volt)
Time (Seconds)

Fig. 1



Alpha Loss
@ 90° (rel)
Fishbones
#78607
I=1.0 MA
B=4.9 T
R=2.45 m
P=20 MW
6
4
2
0
DT neutrons
(x10^17 sec^-1)
B-dot
at wall
(volt)
0.5
0.0
-0.5
2.5
3.0
3.5
Time (sec)
Alpha Loss
@ 90° per DT
neutron (rel)
1.0
0.5
0.0
B-dot
(volt)
3.00
3.05
3.10
3.15
3.20
Time (sec)

Fig. 2

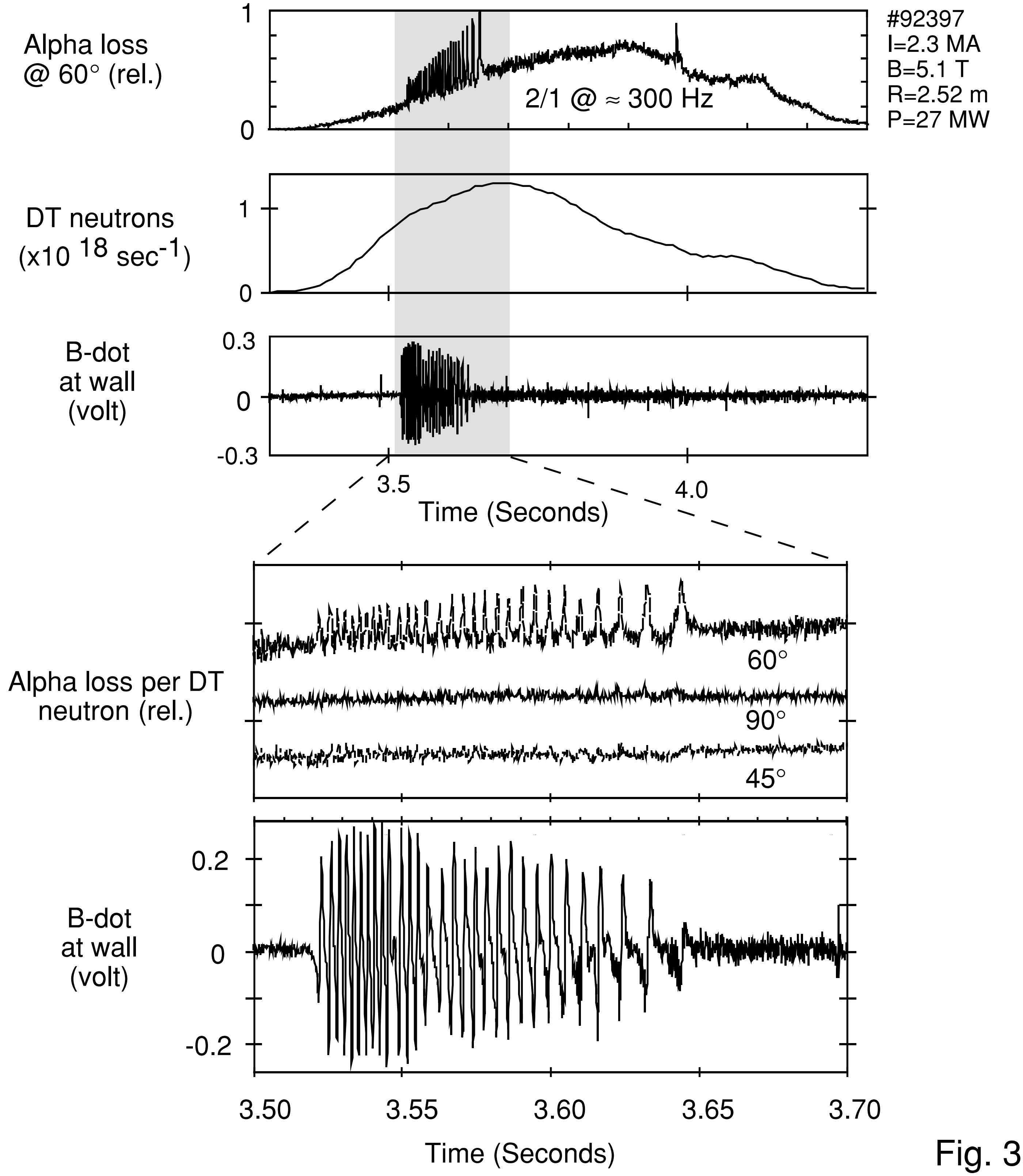

Alpha loss
@ 60° (rel.)
1
0
2/1 @ ≈ 300 Hz
#92397
I=2.3 MA
B=5.1 T
R=2.52 m
P=27 MW
DT neutrons
(x10 18 sec-1)
1
0
B-dot
at wall
(volt)
0.3
0
-0.3
3.5
4.0
Time (Seconds)
Alpha loss per DT
neutron (rel.)
60°
90°
45°
B-dot
at wall
(volt)
0.2
0
-0.2
3.50
3.55
3.60
3.65
3.70
Time (Seconds)

Fig. 3

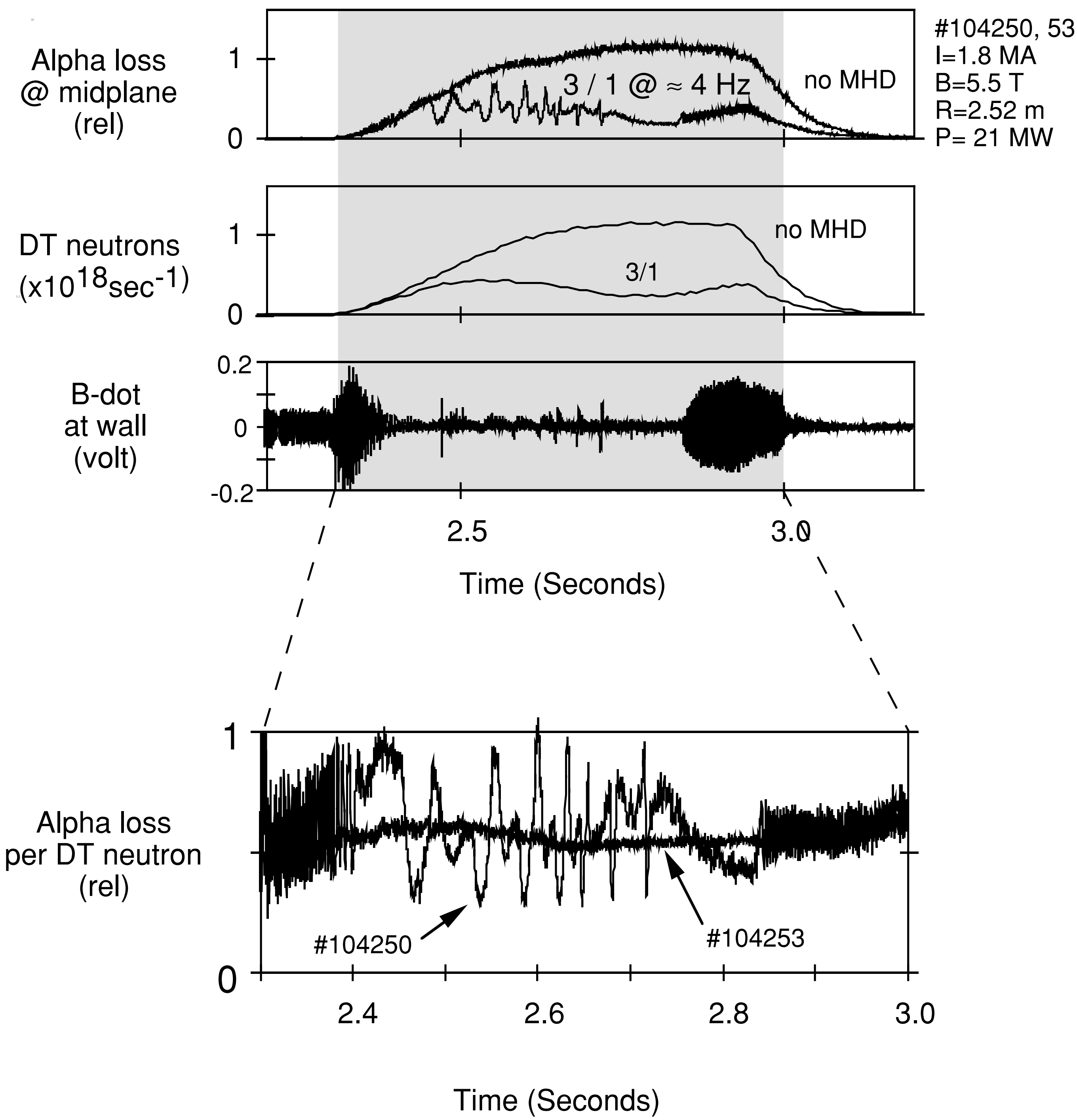
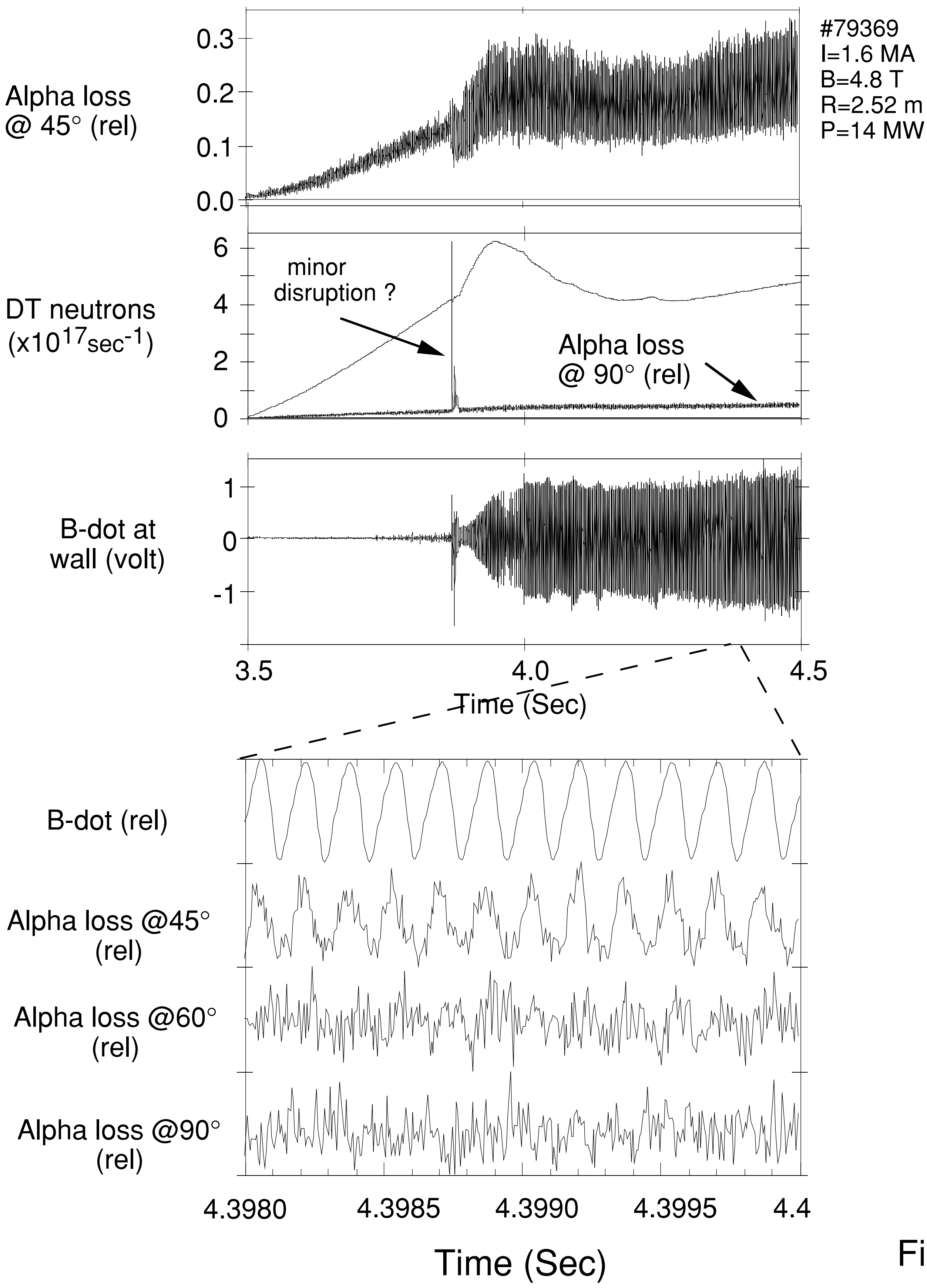

Alpha loss
@ midplane
(rel)
3 / 1 @ ≈ 4 Hz
no MHD
#104250, 53
I=1.8 MA
B=5.5 T
R=2.52 m
P= 21 MW
DT neutrons
(x10^18 sec^-1)
no MHD
3/1
B-dot
at wall
(volt)
0.2
0
-0.2
2.5
3.0
Time (Seconds)
Alpha loss
per DT neutron
(rel)
#104250
#104253
2.4
2.6
2.8
3.0
Time (Seconds)

Fig. 4



#79369
I=1.6 MA
B=4.8 T
R=2.52 m
P=14 MW
Alpha loss
@ 45° (rel)
0.0
0.1
0.2
0.3
DT neutrons
($x10^{17}sec^{-1}$)
0
2
4
6
minor
disruption ?
Alpha loss
@ 90° (rel)
B-dot at
wall (volt)
-1
0
1
3.5
4.0
4.5
Time (Sec)
B-dot (rel)
Alpha loss @45°
(rel)
Alpha loss @60°
(rel)
Alpha loss @90°
(rel)
4.3980
4.3985
4.3990
4.3995
4.4
Time (Sec)

Fig. 5