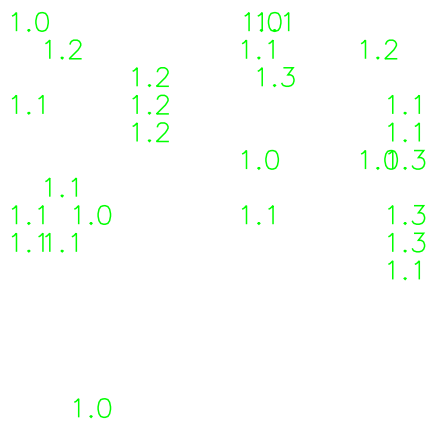
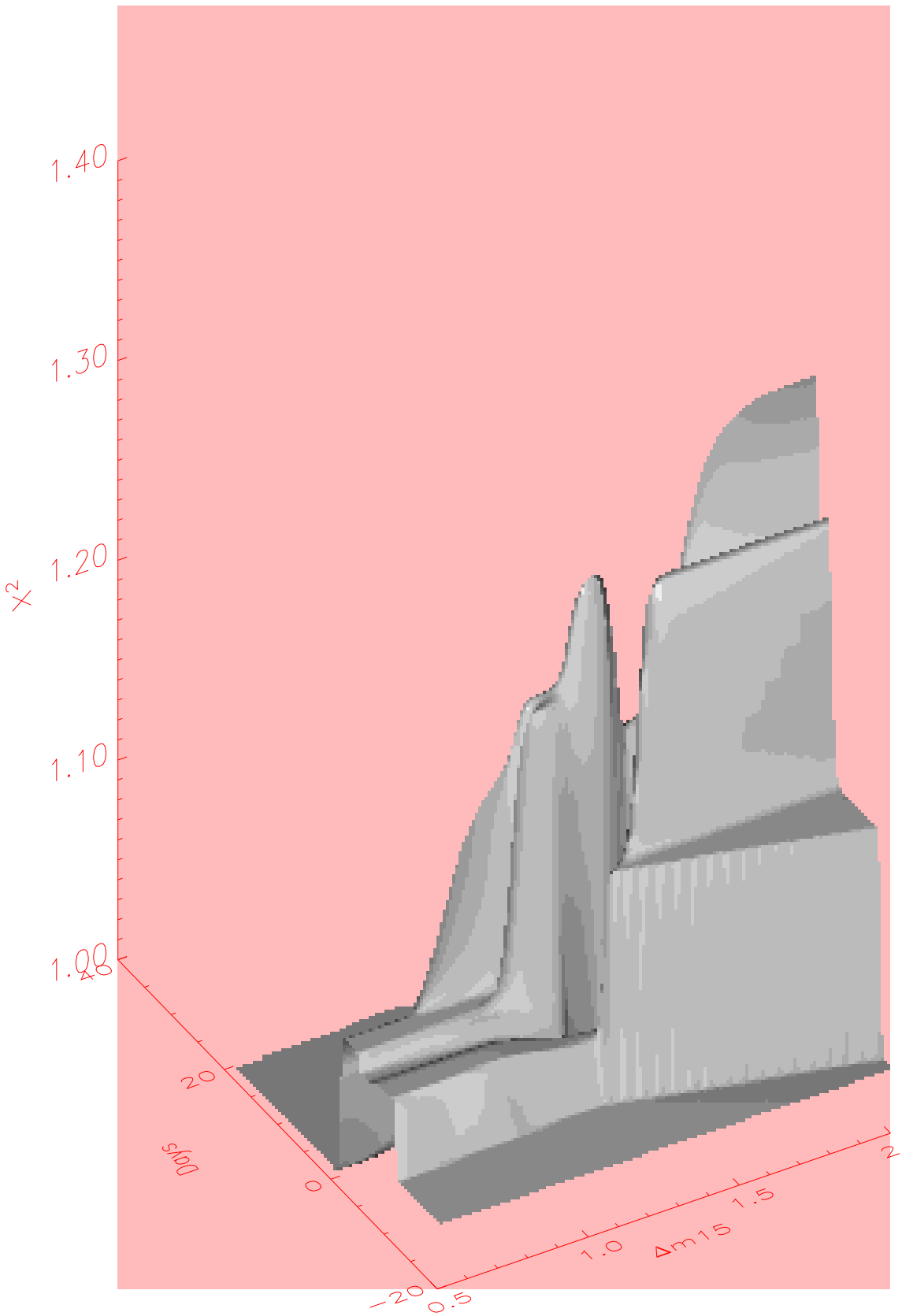
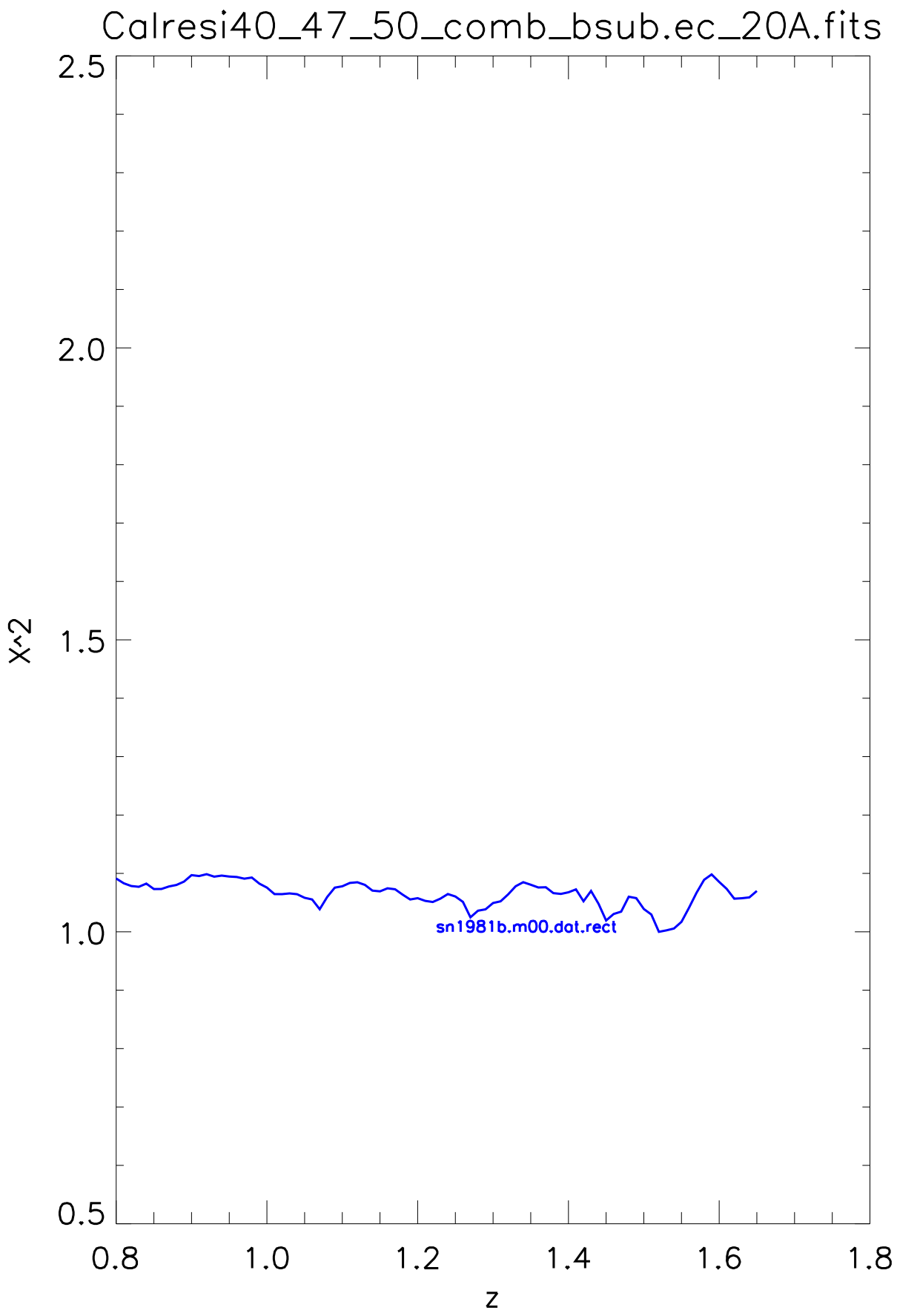
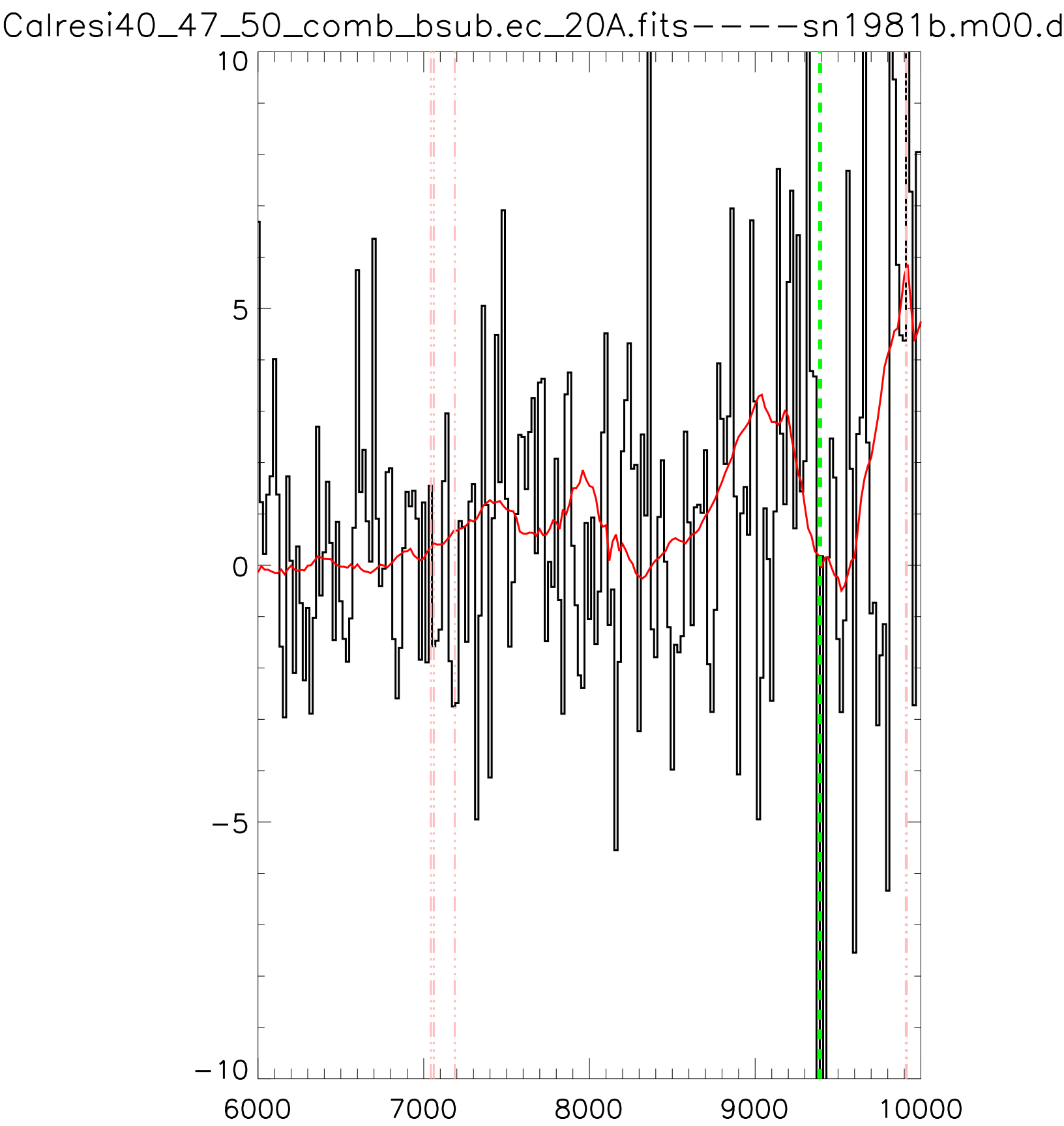
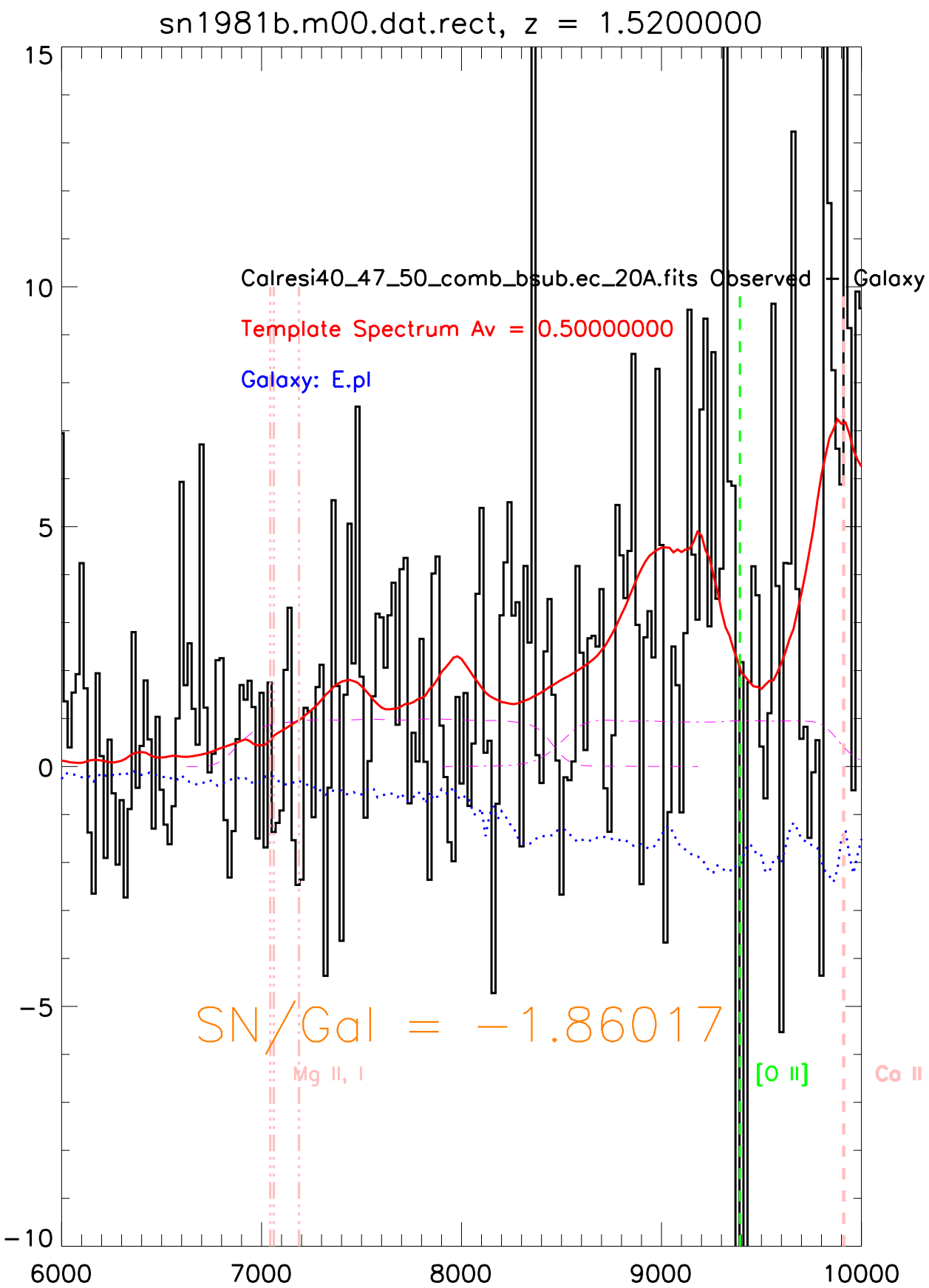

1.0
1.2
1.2
1.1
1.2
1.2
1.1
1.1
1.1
1.0
1.1
1.1
1.0
1.1
1.1
1.1
1101
1.1
1.2
1.3
1.0
1.1
1.1
1.0
1.3
1.1
1.3
1.3
1.1
1.0



1.40
1.30
1.20
1.10
1.00
χ^2
40
20
0
−20
Days
0.5
1.0
1.5
2.0
Δm15


Calresi40_47_50_comb_bsub.ec_20A.fits
2.5
2.0
1.5
1.0
0.5
X^2
0.8
1.0
1.2
1.4
1.6
1.8
z
sn1981b.m00.dat.rect


Calresi40_47_50_comb_bsub.ec_20A.fits----sn1981b.m00.d
10
5
0
−5
−10
6000
7000
8000
9000
10000


sn1981b.m00.dat.rect, z = 1.5200000
Calresi40_47_50_comb_bsub.ec_20A.fits Observed − Galaxy
Template Spectrum Av = 0.50000000
Galaxy: E.pl
SN/Gal = −1.86017
Mg II, I
[O II]
Ca II
15
10
5
0
−5
−10
6000
7000
8000
9000
10000