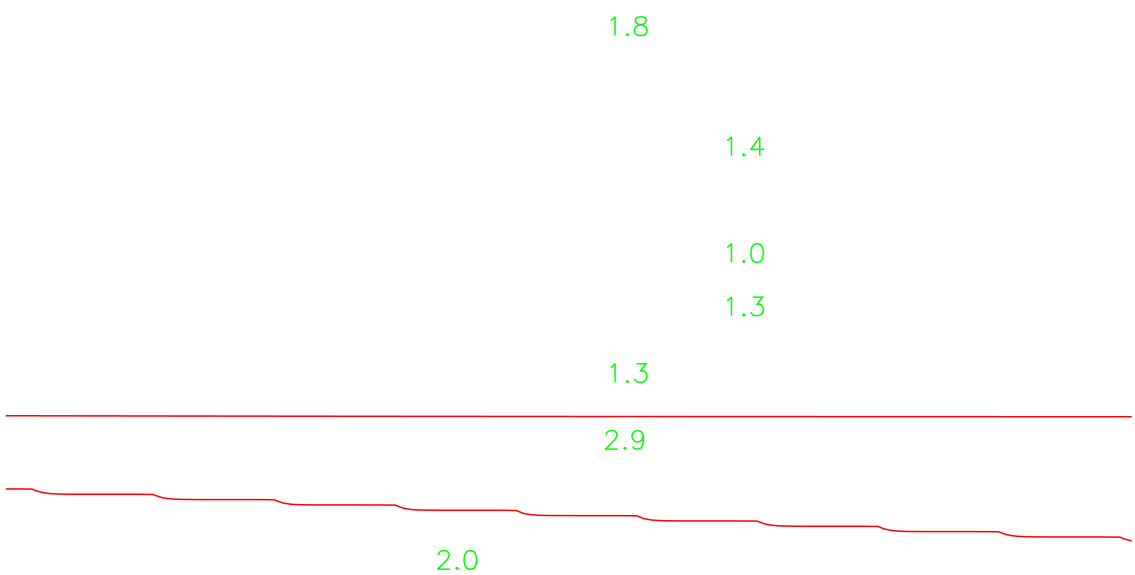
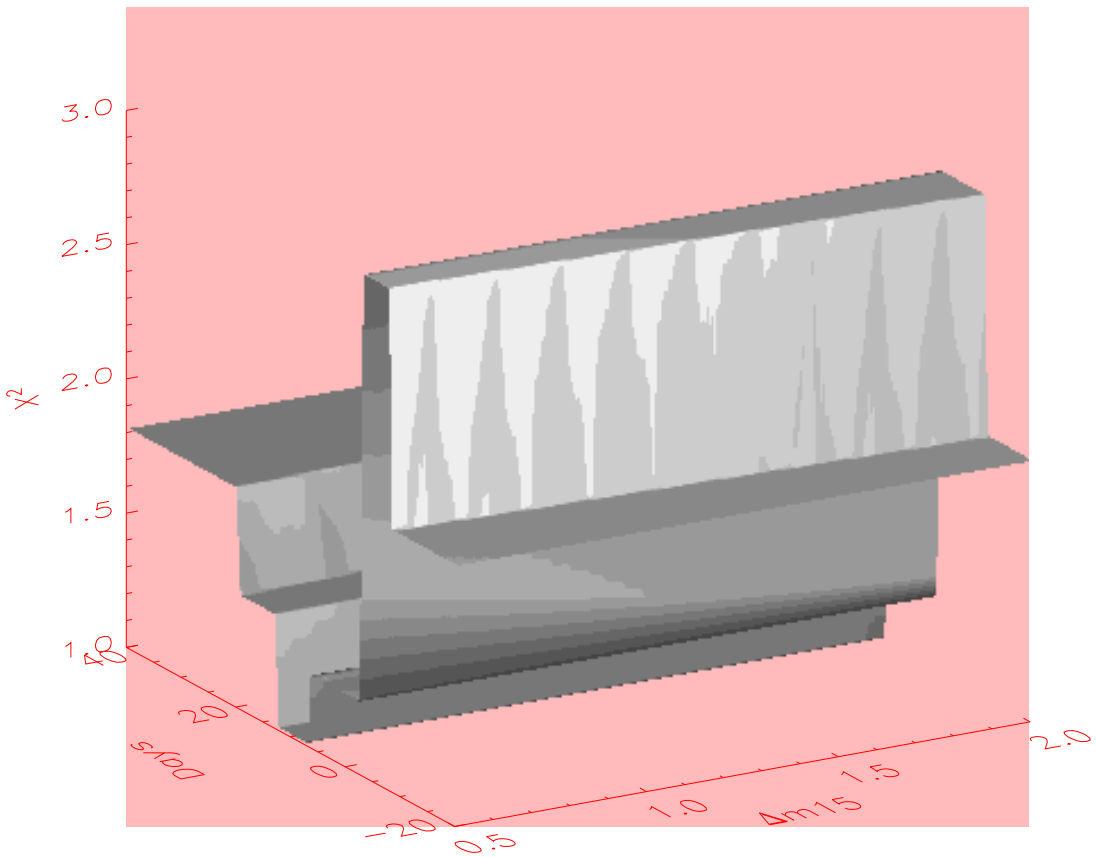
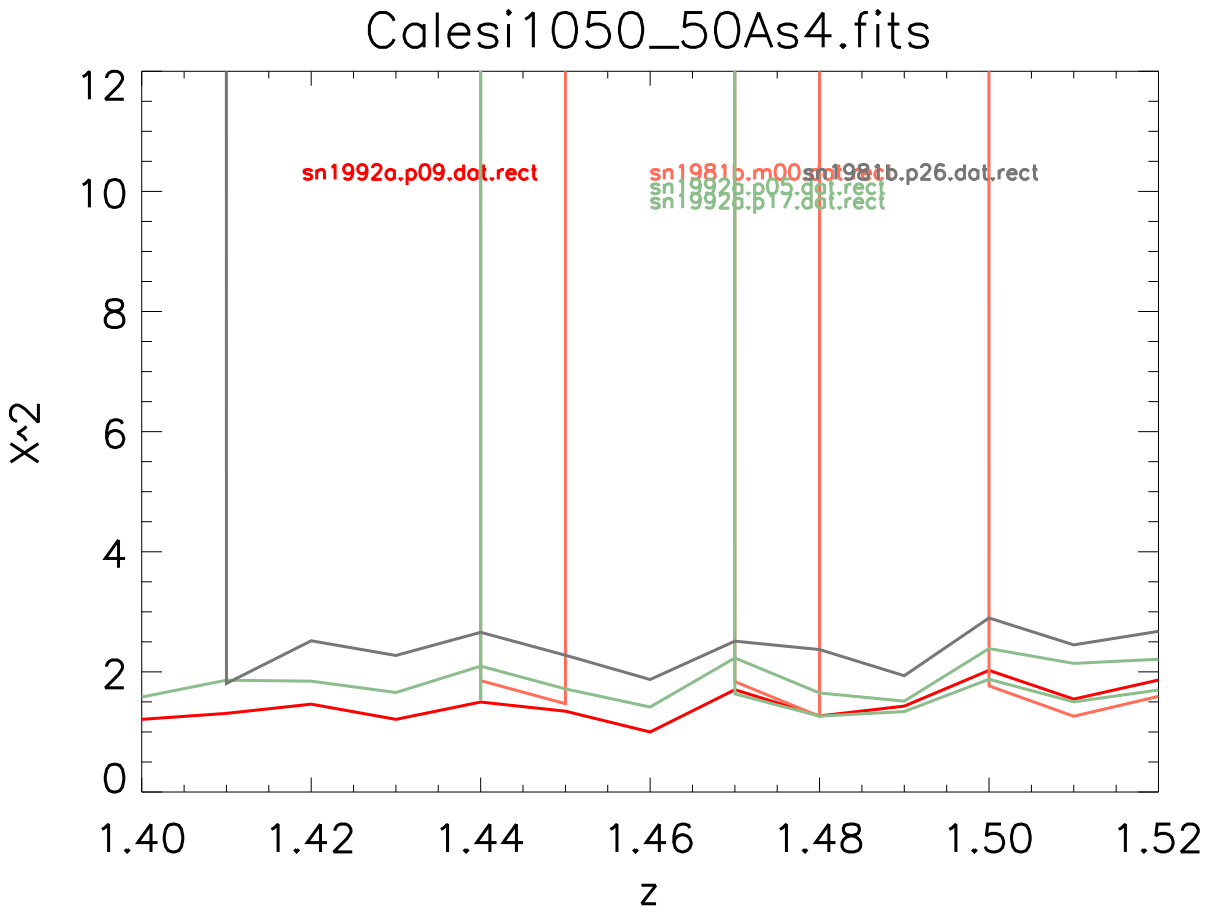
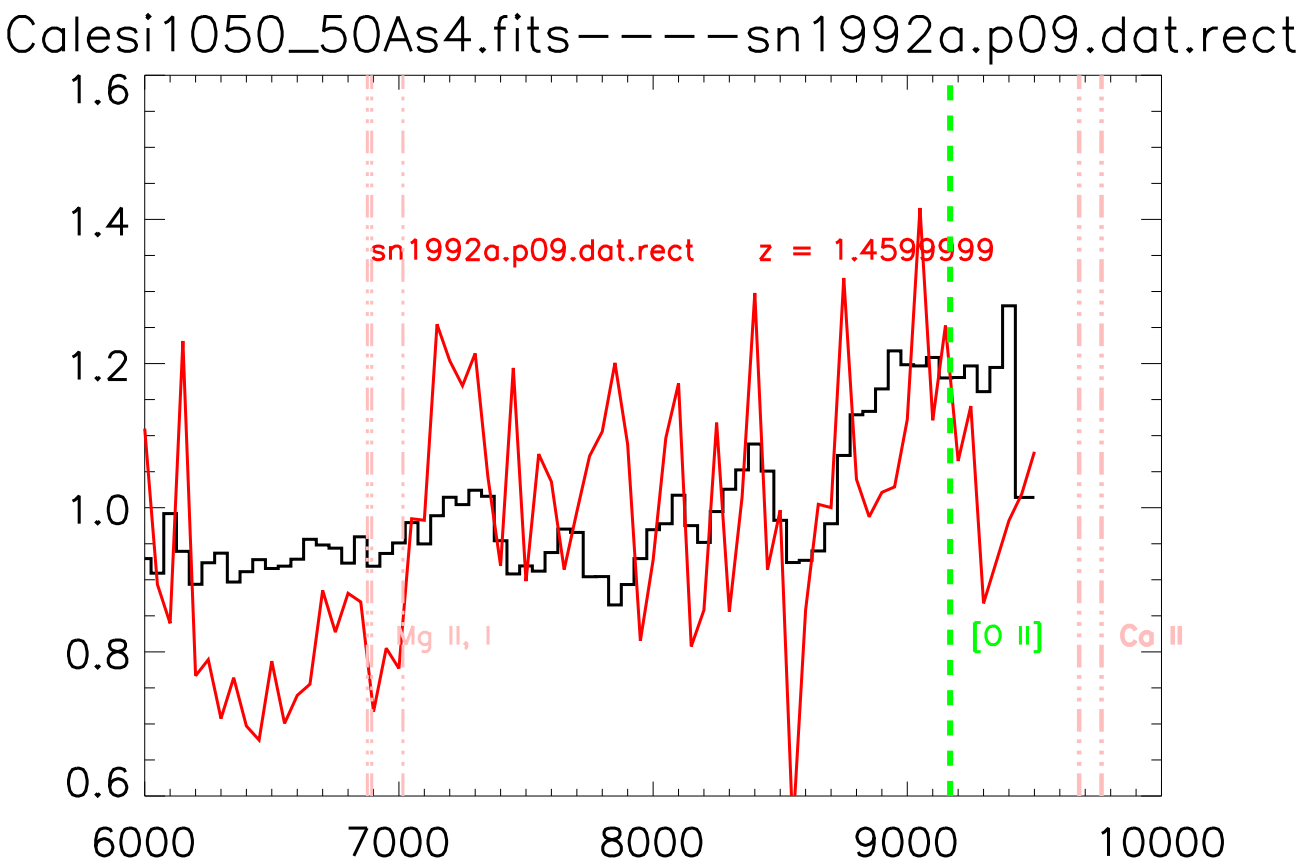
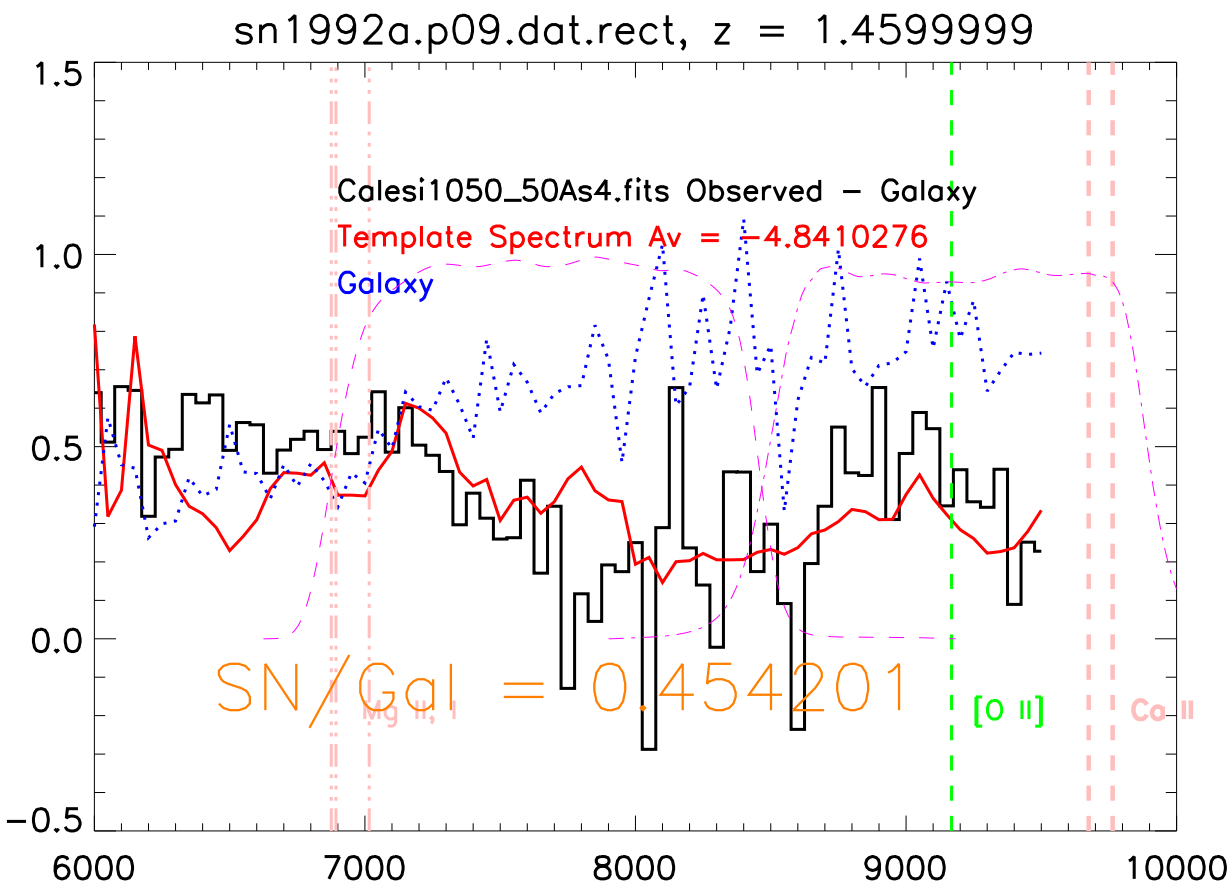
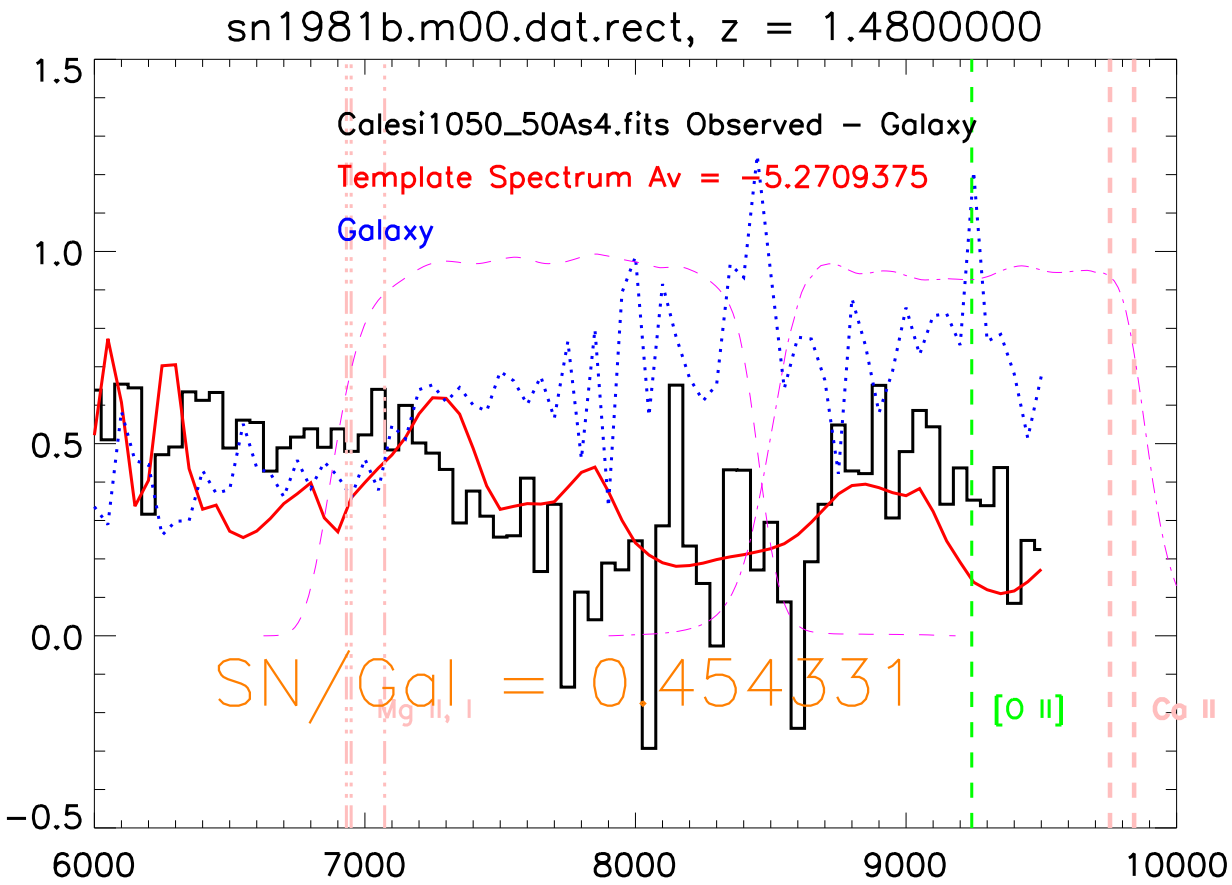

1.8
1.4
1.0
1.3
1.3
2.9
2.0

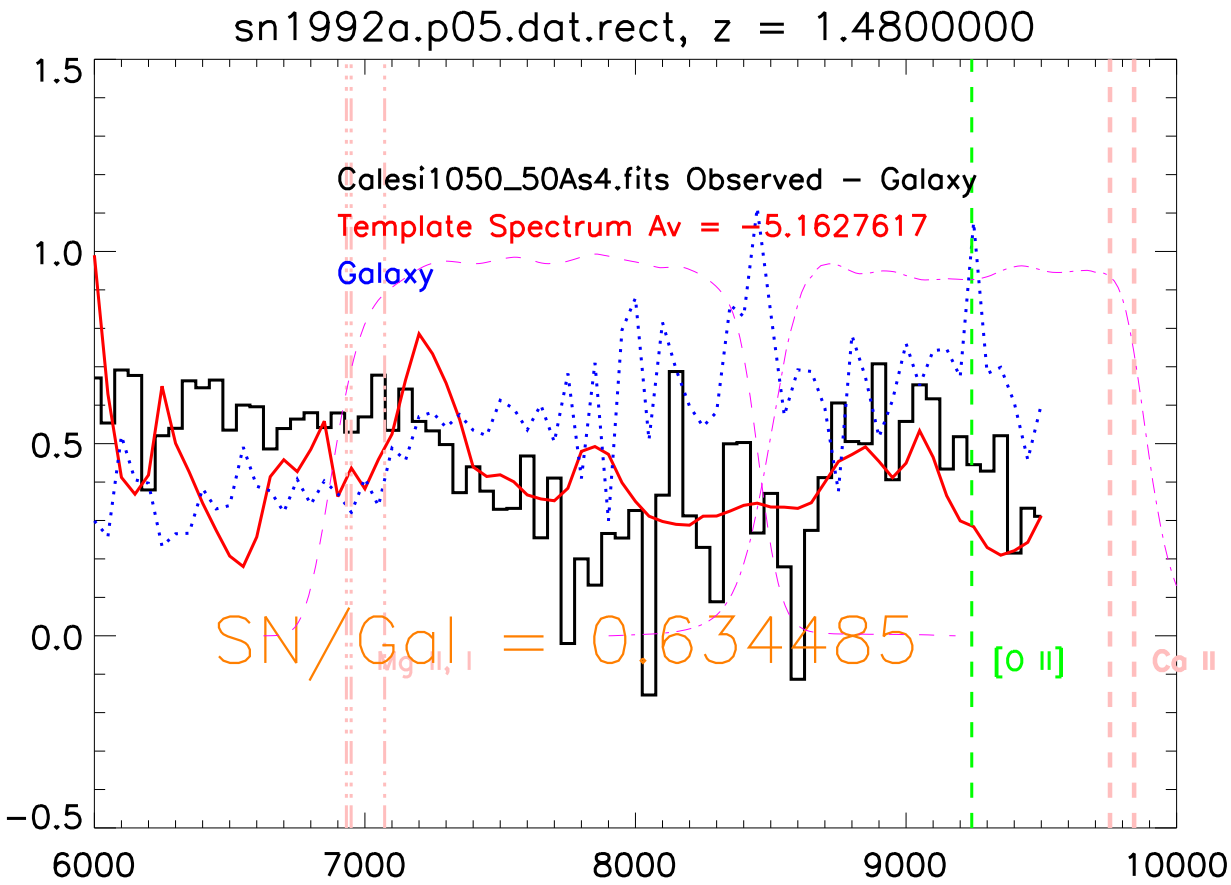

3.0
2.5
2.0
1.5
1.0
χ^2
40
20
0
−20
dφ/s
0.5
1.0
1.5
2.0
Δm15

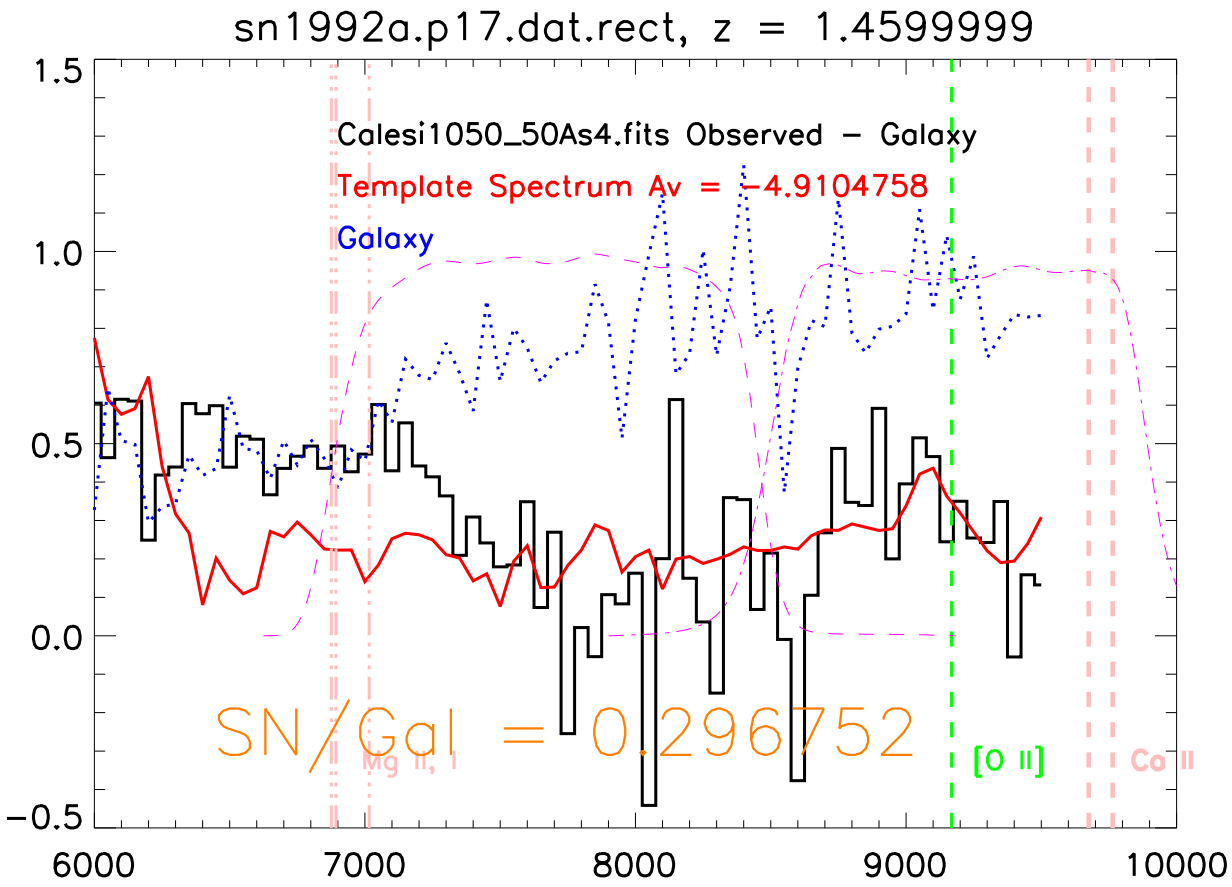

Calesi1050_50As4.fits
sn1992a.p09.dot.rect
sn1992b.p05.dot.rect
sn1992b.p17.dot.rect
sn1998b.p26.dot.rect
X^2
z
0
2
4
6
8
10
12
1.40
1.42
1.44
1.46
1.48
1.50
1.52

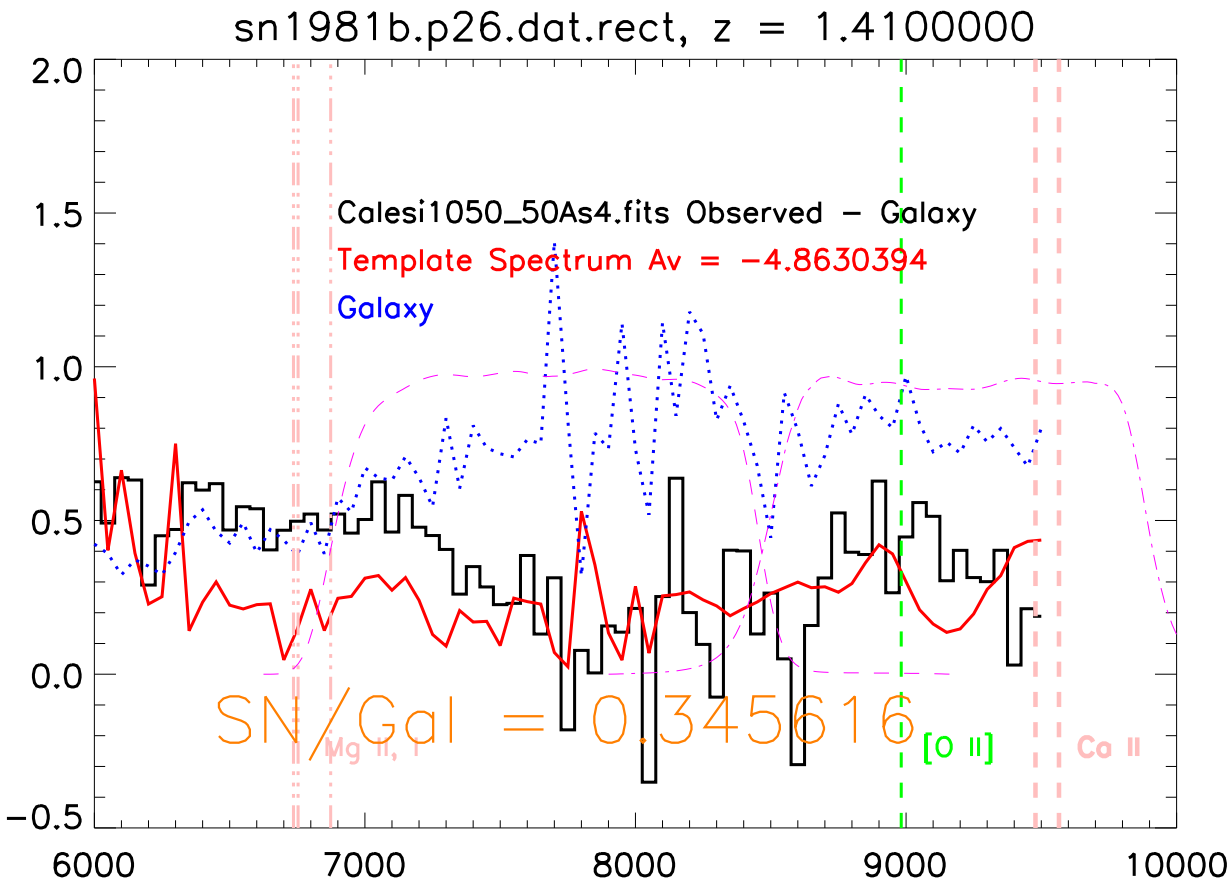

Calesi1050_50As4.fits----sn1992a.p09.dat.rect
sn1992a.p09.dat.rect z = 1.4599999
Mg II, I
[O II]
Ca II
1.6
1.4
1.2
1.0
0.8
0.6
6000
7000
8000
9000
10000


sn1992a.p09.dat.rect, z = 1.4599999
Calesi1050_50As4.fits Observed − Galaxy
Template Spectrum Av = −4.8410276
Galaxy
SN/Gal = 0.454201
Mg II, I
[O II]
Ca II
1.5
1.0
0.5
0.0
−0.5
6000
7000
8000
9000
10000


sn1981b.m00.dat.rect, z = 1.4800000
Calesi1050_50As4.fits Observed − Galaxy
Template Spectrum Av = −5.2709375
Galaxy
SN/Gal = 0.454331
Mg II, I
[O II]
Ca II
1.5
1.0
0.5
0.0
−0.5
6000
7000
8000
9000
10000


sn1992a.p05.dat.rect, z = 1.4800000
Calesi1050_50As4.fits Observed − Galaxy
Template Spectrum Av = −5.1627617
Galaxy
SN/Gal = 0.634485
Mg II, I
[O II]
Ca II
1.5
1.0
0.5
0.0
−0.5
6000
7000
8000
9000
10000


sn1992a.p17.dat.rect, z = 1.4599999
Calesi1050_50As4.fits Observed − Galaxy
Template Spectrum Av = 4.9104758
Galaxy
SN/Gal = 0.296752
Mg II, I
[O II]
Ca II
1.5
1.0
0.5
0.0
−0.5
6000
7000
8000
9000
10000


sn1981b.p26.dat.rect, z = 1.4100000
Calesi1050_50As4.fits Observed − Galaxy
Template Spectrum Av = −4.8630394
Galaxy
SN/Gal = 0.3456616
Mg II, 1
[O II]
Ca II
2.0
1.5
1.0
0.5
0.0
−0.5
6000
7000
8000
9000
10000