UVES Thorium-Argon Atlas

Setup: RED Echelle, CD#3 @ 520 nm

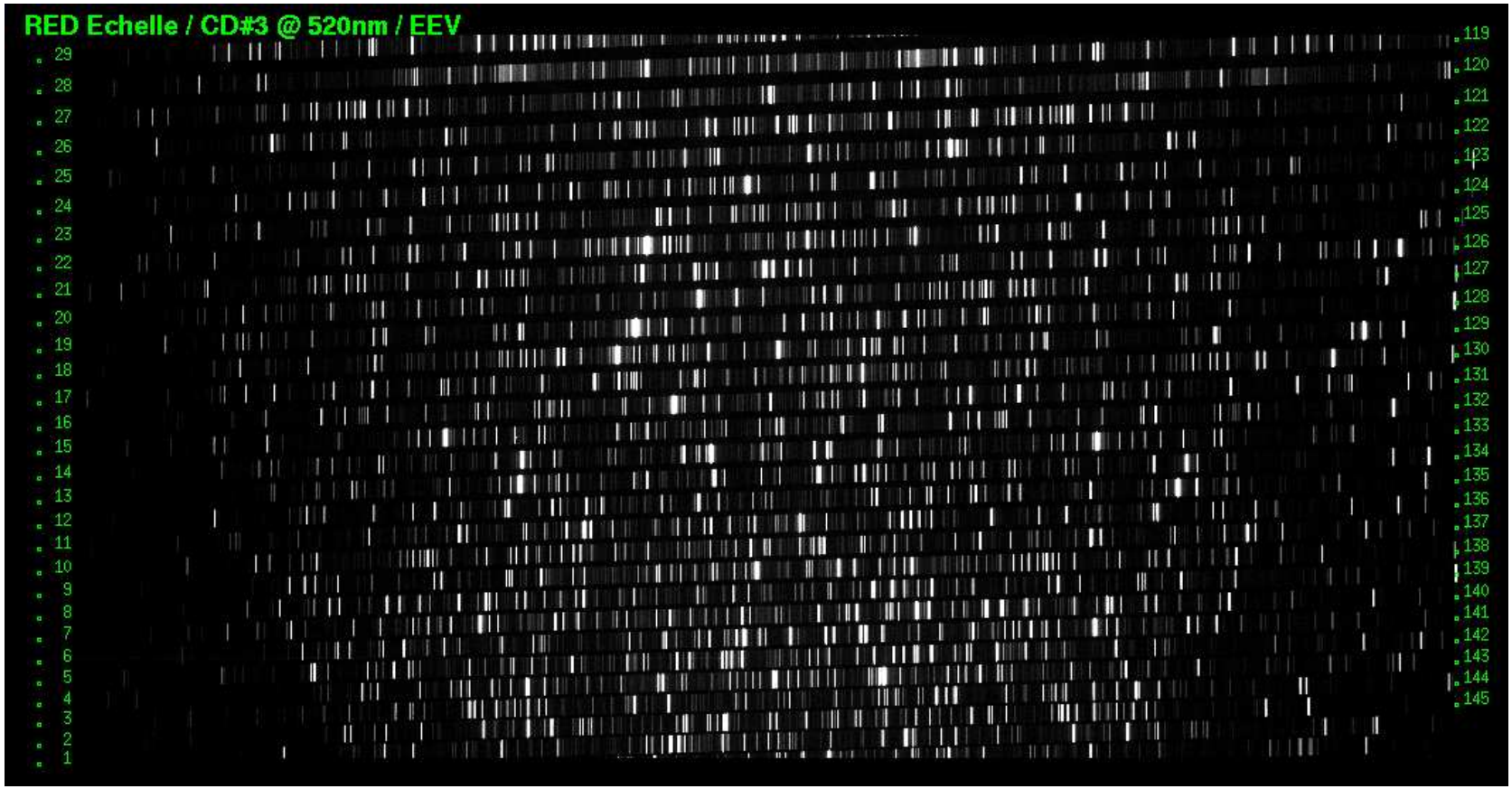
V0.1 2000-05-14 by A.Kaufer, ESO-Paranal

Contents:

- 2D image of the Thorium-Argon frame with
  - the instrument setup identified on the top,
  - the running number of the (extracted) order to the left,
  - the absolute order number to the right.
- plots of all extracted 1D orders with
  - the extracted order number, the absolute order number, and the instrument setup identified on the top,
  - the extracted Thorium-Argon spectrum in x-pixel coordinates
  - the lines identified by their wavelength (in blue)
- resolution plot as derived from the extracted Thorium-Argon spectrum

Information:

- The Thorium-Argon exposures have been taking with the following settings:
  - slitwidth: 0.5 arcsec
  - exposure time: 15 secs
  - CCD setup: readout-speed 225kHz, low gain, binning 1x1
- The CCD frames have been extracted and flipped/transposed with the SPLIT/UVES tool available in the MIDAS context `uves`:
  - $\rightarrow$ the overscan regions are removed
  - $\rightarrow$ the orders are oriented to have a positive slope
  - $\rightarrow$ wavelengths are increasing from bottom to top


RED Echelle / CD#3 @ 520nm / EEV
29
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16
15
14
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12
11
10
9
8
7
6
5
4
3
2
1
119
120
121
122
123
124
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140
141
142
143
144
145

row #1 / order #146 / RED Echelle / CD#3 @ 520nm / EEV
intensity (ADU)
position (pixel)
6000
4000
2000
0
0
1000
2000
3000
4000
4158.590
4164.179
4165.766
4168.634
4170.533
4178.059
4179.715
4181.883
4184.137
4189.561
4190.712
4191.028
4192.362
4193.016
4194.936
4198.317
4200.675
4204.041
4208.890
4210.923

row #2 / order #145 / RED Echelle / CD#3 @ 520nm / EEV
intensity (ADU)
position (pixel)
6000
4000
2000
0
0
1000
2000
3000
4000
4190.712
4191.028
4193.016
4194.936
4198.317
4200.675
4201.846
4204.041
4208.411
4208.890
4210.923
4213.067
4214.828
4216.069
4218.690
4220.068
4222.670
4223.440
4223.593
4226.299
4226.726
4227.387
4228.180
4229.147
4229.890
4230.426
4235.463
4237.230

row #3 / order #144 / RED Echelle / CD#3 @ 520nm / EEV
intensity (ADU)
position (pixel)
6000
4000
2000
0
0
1000
2000
3000
4000
4272.168
4266.286
4260.333
4259.361
4258.520
4257.496
4256.253
4255.797
4255.237
4253.538
4251.185
4250.314
4248.390
4247.988
4241.094
4237.230
4235.463
4230.426
4229.890
4229.147
4228.180
4227.387
4226.726
4223.440
4222.670

row #4 / order #143 / RED Echelle / CD#3 @ 520nm / EEV
position (pixel)
intensity (ADU)
0
1000
2000
3000
4000
0
2000
4000
6000
4250.314
4251.185
4253.538
4255.237
4255.797
4256.253
4257.496
4258.520
4259.361
4260.333
4266.286
4269.942
4272.168
4272.874
4273.357
4274.024
4275.190
4276.807
4277.314
4277.550
4278.323
4280.568
4281.067
4281.414
4282.041
4282.900
4283.518
4286.228
4288.668
4291.809
4297.306
4300.100

row #5 / order #142 / RED Echelle / CD#3 @ 520nm / EEV
intensity (ADU)
position (pixel)
0
2000
4000
6000
0
1000
2000
3000
4000
4328.915
4325.274
4320.126
4318.415
4315.254
4314.319
4312.997
4311.799
4309.250
4308.600
4308.122
4307.176
4306.366
4304.956
4300.660
4300.100
4299.839
4299.635
4297.990
4297.306
4294.719
4291.809
4288.668
4286.228
4282.900
4282.041
4281.067
4280.568
4278.323
4277.550
4277.314

row #6 / order #141 / RED Echelle / CD#3 @ 520nm / EEV
intensity (ADU)
position (pixel)
0
2000
4000
6000
0
1000
2000
3000
4000
4358.320
4353.448
4352.612
4352.230
4349.072
4348.110
4346.436
4345.851
4345.167
4344.326
4343.951
4342.444
4340.895
4338.107
4337.277
4335.709
4333.560
4332.060
4330.843
4328.915
4325.274
4320.126
4318.415
4315.254
4314.319
4312.997
4311.799
4309.250
4307.176

row #7 / order #140 / RED Echelle / CD#3 @ 520nm / EEV
position (pixel)
intensity (ADU)
0
1000
2000
3000
4000
0
2000
4000
6000
4391.110
4387.787
4384.656
4385.080
4381.860
4381.402
4378.176
4375.960
4374.124
4371.360
4370.760
4369.875
4369.494
4367.870
4365.930
4363.794
4362.070
4359.372
4358.320
4354.482
4353.448
4352.612
4352.230
4349.072
4348.110
4346.436
4345.851
4345.167
4344.326
4343.951
4342.444
4340.895
4337.277
4335.337
4333.560

row #8 / order #139 / RED Echelle / CD#3 @ 520nm / EEV
intensity (ADU)
position (pixel)
0
2000
4000
6000
0
1000
2000
3000
4000
4426.010
4416.844
4414.486
4412.893
4412.739
4408.883
4408.482
4404.910
4402.927
4401.581
4401.020
4400.090
4397.915
4393.759
4392.974
4391.110
4387.787
4385.080
4384.656
4381.860
4381.402
4378.176
4375.960
4374.785
4374.124
4371.360
4370.760
4369.875
4367.870
4365.930

row #9 / order #138 / RED Echelle / CD#3 @ 520nm / EEV
intensity (ADU)
position (pixel)
0
2000
4000
6000
0
1000
2000
3000
4000
4458.001
4452.565
4450.793
4448.880
4447.834
4445.901
4445.315
4445.033
4443.665
4441.608
4440.866
4439.480
4439.123
4438.746
4433.830
4432.963
4432.252
4431.020
4430.180
4426.010
4423.720
4422.048
4416.844
4416.237
4414.486
4412.893
4412.739
4408.883
4408.482
4402.927
4401.581
4401.020
4400.090

row #10 / order #137 / RED Echelle / CD#3 @ 520nm / EEV
position (pixel)
intensity (ADU)
0
1000
2000
3000
4000
0
2000
4000
6000
4426.010
4430.180
4431.020
4433.830
4438.746
4439.123
4439.480
4440.866
4441.608
4443.665
4445.033
4445.315
4445.901
4447.834
4448.880
4450.793
4452.565
4458.001
4460.530
4461.241
4461.527
4463.666
4465.340
4469.525
4470.990
4474.270
4475.221
4478.595
4479.637
4480.822
4481.830
4482.169
4483.346
4486.897

row #11 / order #136 / RED Echelle / CD#3 @ 520nm / EEV
intensity (ADU)
position (pixel)
0
2000
4000
6000
0
1000
2000
3000
4000
4521.194
4519.259
4515.118
4513.680
4513.223
4510.733
4510.526
4506.494
4505.216
4502.950
4499.983
4498.940
4498.550
4497.914
4493.333
4490.990
4489.664
4488.680
4488.312
4487.495
4486.897
4485.713
4483.346
4482.169
4481.830
4480.822
4479.637
4478.595
4475.221
4474.770
4469.525

row #12 / order #135 / RED Echelle / CD#3 @ 520nm / EEV
intensity (ADU)
position (pixel)
6000
4000
2000
0
0
1000
2000
3000
4000
4555.812
4547.780
4547.249
4545.915
4545.080
4544.514
4540.999
4537.670
4535.254
4534.120
4533.304
4533.077
4532.257
4530.570
4522.323
4521.194
4519.259
4515.118
4513.680
4513.223
4510.733
4510.526
4506.494
4505.216
4502.950
4499.983
4498.940
4493.333

row #13 / order #134 / RED Echelle / CD#3 @ 520nm / EEV
intensity (ADU)
position (pixel)
6000
4000
2000
0
0
1000
2000
3000
4000
4589.930
4588.426
4581.173
4579.827
4579.390
4577.823
4570.972
4568.142
4567.240
4563.661
4561.347
4558.346
4555.812
4552.153
4547.780
4547.249
4545.915
4545.080
4544.514
4540.999
4535.254

row #14 / order #133 / RED Echelle / CD#3 @ 520nm / EEV
position (pixel)
intensity (ADU)
0
1000
2000
3000
4000
0
2000
4000
6000
4621.163
4615.334
4613.604
4611.859
4609.600
4608.620
4607.934
4603.144
4598.770
4596.097
4595.420
4593.643
4592.666
4588.426
4581.173
4579.827
4577.823
4570.972
4568.142
4567.240

row #15 / order #132 / RED Echelle / CD#3 @ 520nm / EEV
position (pixel)
intensity (ADU)
0
1000
2000
3000
4000
6000
4000
2000
0
4595.420
4598.770
4603.144
4607.934
4608.620
4609.600
4611.859
4612.543
4613.604
4615.024
4615.334
4619.479
4621.163
4628.441
4631.761
4633.765
4637.250
4638.685
4640.046
4641.253
4644.707
4646.686
4647.251
4650.234
4651.555
4657.940

row #16 / order #131 / RED Echelle / CD#3 @ 520nm / EEV
intensity (ADU)
position (pixel)
6000
4000
2000
0
0
1000
2000
3000
4000
4637.250
4638.685
4641.253
4644.707
4646.686
4647.251
4650.234
4651.555
4651.989
4655.212
4657.940
4659.570
4663.202
4666.005
4666.798
4668.171
4669.984
4673.660
4676.055
4680.646
4680.237
4683.351
4686.194
4689.251
4690.622
4691.635
4694.091
4695.038

row #17 / order #130 / RED Echelle / CD#3 @ 520nm / EEV
intensity (ADU)
position (pixel)
0
2000
4000
6000
0
1000
2000
3000
4000
4732.080
4729.128
4726.940
4723.784
4723.438
4722.088
4721.620
4721.276
4720.458
4712.840
4712.481
4708.294
4706.251
4705.760
4703.989
4703.360
4702.316
4700.771
4695.454
4695.038
4694.091
4691.635
4690.622
4689.251
4686.194
4683.351
4680.646
4680.237
4676.055
4673.660
4669.984
4668.171

row #18 / order #129 / RED Echelle / CD#3 @ 520nm / EEV
position (pixel)
intensity (ADU)
0
1000
2000
3000
4000
0
2000
4000
6000
4764.346
4764.990
4765.595
4766.600
4752.414
4749.971
4749.200
4745.337
4743.687
4742.117
4740.952
4740.529
4739.676
4735.930
4732.080
4729.128
4728.133
4726.910
4724.272
4723.784
4723.438
4722.088
4721.620
4721.276
4720.458
4712.840
4712.481
4708.294
4705.760
4703.989
4702.316

row #19 / order #128 / RED Echelle / CD#3 @ 520nm / EEV
position (pixel)
intensity (ADU)
0
1000
2000
3000
4000
6000
4000
2000
0
4806.070
4795.913
4793.244
4789.386
4787.148
4786.531
4783.861
4782.761
4779.728
4778.294
4777.191
4775.794
4774.259
4773.241
4766.600
4765.595
4764.890
4764.346
4752.414
4749.971
4749.200
4745.337
4743.687
4740.952
4740.529
4739.676
4735.930

row #20 / order #127 / RED Echelle / CD#3 @ 520nm / EEV
position (pixel)
intensity (ADU)
0
1000
2000
3000
4000
0
2000
4000
6000
4843.941
4840.843
4833.178
4832.802
4831.597
4831.121
4829.797
4826.700
4823.996
4823.606
4822.854
4821.587
4820.884
4820.464
4819.193
4818.647
4817.020
4813.896
4813.720
4813.007
4812.375
4809.614
4808.133
4806.070
4795.913
4793.244
4786.531
4787.148
4789.386
4778.294
4783.861

row #21 / order #126 / RED Echelle / CD#3 @ 520nm / EEV
intensity (ADU)
position (pixel)
0
2000
4000
6000
0
1000
2000
3000
4000
4881.204
4879.900
4878.733
4878.009
4876.260
4874.364
4872.917
4871.289
4868.881
4867.590
4865.910
4865.472
4863.172
4861.717
4861.216
4858.332
4852.868
4850.439
4849.140
4848.362
4845.162
4843.941
4840.843
4833.178
4832.802
4831.597
4831.121
4829.797
4826.700
4823.996
4823.606
4822.854
4821.587
4820.884
4820.464
4819.193
4813.896

row #22 / order #125 / RED Echelle / CD#3 @ 520nm / EEV
position (pixel)
intensity (ADU)
0
1000
2000
3000
4000
0
2000
4000
6000
4919.815
4912.529
4911.378
4910.793
4910.156
4904.750
4902.054
4899.240
4894.955
4893.445
4892.760
4889.490
4888.060
4887.947
4882.250
4881.204
4879.900
4878.733
4878.009
4876.260
4874.364
4872.917
4871.289
4868.881
4867.590
4865.910
4865.477
4863.172
4861.717
4861.216

row #23 / order #124 / RED Echelle / CD#3 @ 520nm / EEV
intensity (ADU)
position (pixel)
6000
4000
2000
0
0
1000
2000
3000
4000
4950.626
4950.251
4947.575
4946.663
4945.458
4943.064
4939.642
4937.829
4936.774
4933.852
4933.240
4929.086
4927.780
4925.950
4921.613
4920.623
4919.815
4912.529
4911.378
4910.793
4910.156
4904.750
4902.770
4902.054
4899.240
4894.955
4889.060

row #24 / order #123 / RED Echelle / CD#3 @ 520nm / EEV
intensity (ADU)
position (pixel)
6000
4000
2000
0
0
1000
2000
3000
4000
4993.749
4989.308
4987.147
4985.372
4982.487
4980.186
4972.177
4970.063
4968.755
4965.731
4965.120
4961.726
4960.423
4954.660
4950.626
4950.251
4947.575
4946.663
4945.458
4943.064
4939.642
4937.829
4936.774
4933.240

row #25 / order #122 / RED Echelle / CD#3 @ 520nm / EEV
intensity (ADU)
position (pixel)
6000
4000
2000
0
0
1000
2000
3000
4000
5039.230
5029.891
5028.655
5022.005
5019.806
5019.324
5017.160
5015.889
5009.350
5004.127
5003.598
5002.097
4993.749
4989.308
4987.147
4985.372
4982.487
4980.186
4972.177
4965.120

row #26 / order #121 / RED Echelle / CD#3 @ 520nm / EEV
intensity (ADU)
position (pixel)
6000
4000
2000
0
0
1000
2000
3000
4000
5081.440
5069.338
5067.973
5066.773
5066.135
5064.945
5064.602
5062.932
5062.070
5061.656
5059.861
5058.361
5057.986
5055.347
5051.888
5050.784
5049.296
5048.936
5047.043
5045.248
5044.719
5041.122
5039.230
5029.891
5028.655
5022.005
5019.806
5009.350

row #27 / order #120 / RED Echelle / CD#3 @ 520nm / EEV
intensity (ADU)
position (pixel)
0
2000
4000
6000
0
1000
2000
3000
4000
5057.986
5058.361
5059.861
5061.656
5062.070
5062.932
5064.602
5064.945
5066.135
5066.773
5067.973
5069.338
5081.440
5094.106
5095.064
5096.484
5098.043
5100.621
5101.129
5111.278
5115.044
5122.499

row #28 / order #119 / RED Echelle / CD#3 @ 520nm / EEV
position (pixel)
intensity (ADU)
0
1000
2000
3000
4000
0
2000
4000
6000
5096.484
5100.621
5101.129
5111.278
5113.382
5115.044
5118.200
5122.499
5125.489
5125.950
5128.489
5134.746
5137.473
5140.773
5141.810
5143.267
5143.916
5148.211
5151.612
5154.243
5158.604
5159.620
5160.710
5161.539
5162.284
5163.458
5165.820

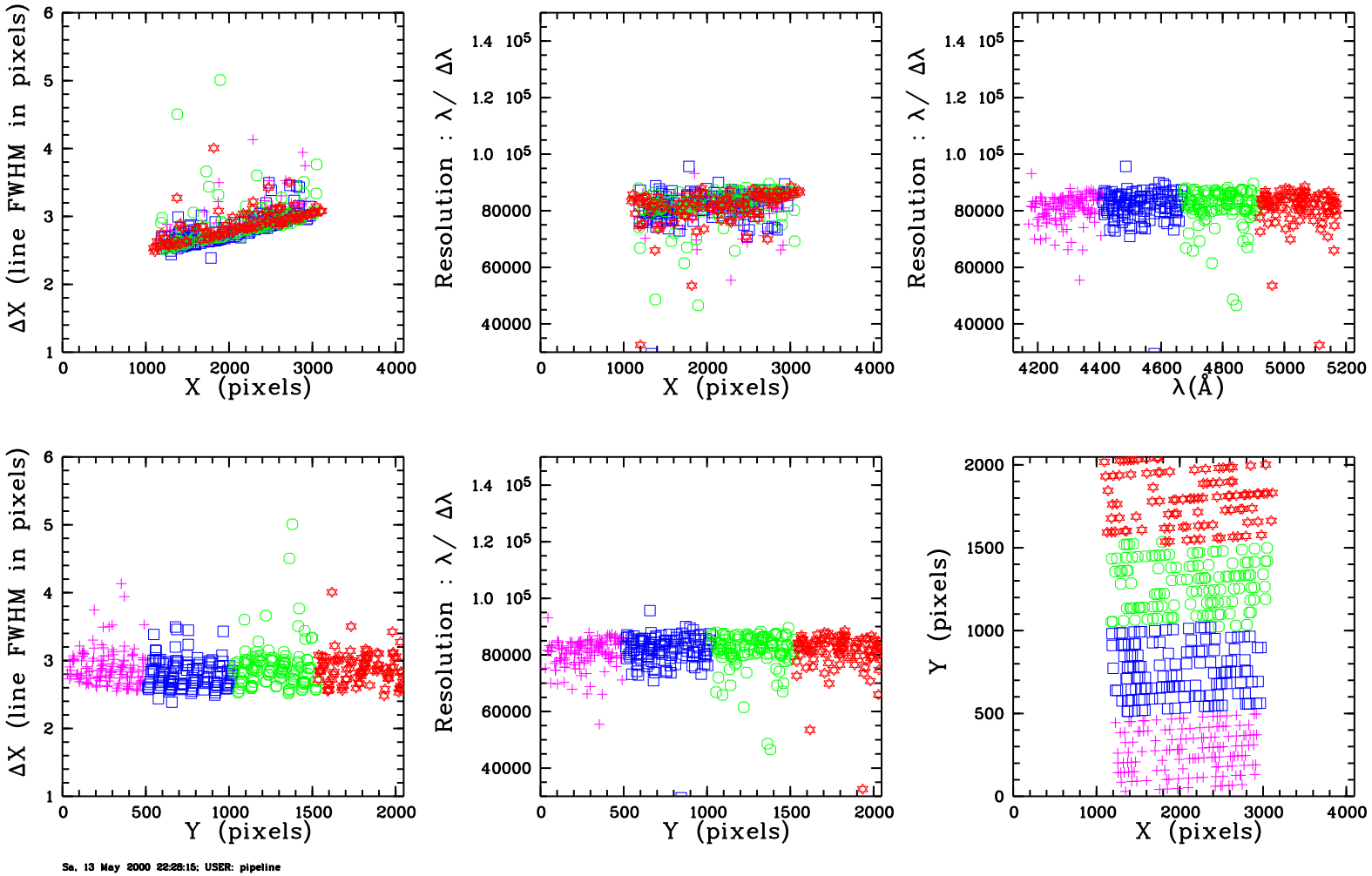
row #29 / order #118 / RED Echelle / CD#3 @ 520nm / EEV
intensity (ADU)
position (pixel)
0
2000
4000
6000
0
1000
2000
3000
4000
5140.773
5141.810
5143.267
5145.360
5148.211
5151.612
5154.243
5158.604
5159.620
5160.710
5161.539
5162.284
5163.458
5165.820
5168.586
5168.922
5173.671
5175.324
5175.911
5176.403
5176.961

Central wavelength: 520.0 nm, slit: 0.5 arcsec, CCD: EEV, 9.8 °C

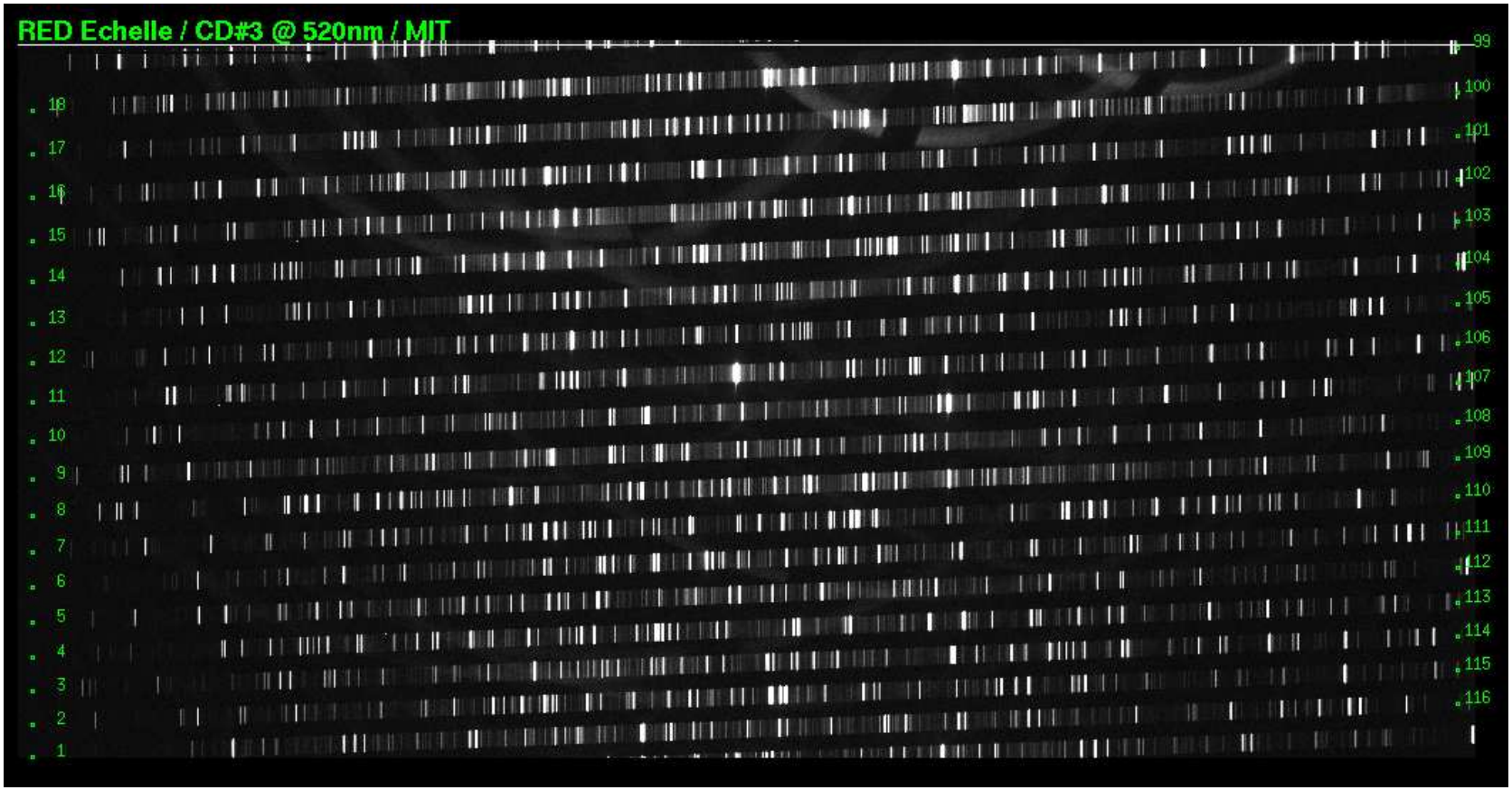
Filename : UVES_RED_CAL134.fits, Observ. date: 2000-05-13T20:32:07

Median(DX) = 2.845 pix , Mean(DX) = 2.9 pix , σ(DX) = 0.5 pix

Median(RES) = 82378.773 , Mean(RES) = 82072.602 , σ(RES) = 21637.4



Sa, 13 May 2000 22:28:15; USER: pipeline


RED Echelle / CD#3 @ 520nm / MIT
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1

row #1 / order #116 / RED Echelle / CD#3 @ 520nm / M1T
intensity (ADU)
position (pixel)
0
2000
4000
6000
0
1000
2000
3000
4000
5303.483
5300.523
5298.282
5297.743
5296.278
5294.397
5291.816
5281.068
5277.500
5274.118
5269.792
5266.710
5261.472
5260.104
5258.360
5254.259
5252.786
5247.654
5247.196
5240.196
5239.552
5238.813
5234.107
5233.225
5231.159
5228.224

row #2 / order #115 / RED Echelle / CD#3 @ 520nm / M1T
intensity (ADU)
position (pixel)
0
2000
4000
6000
0
1000
2000
3000
4000
5347.971
5343.581
5340.498
5330.080
5329.374
5326.975
5326.277
5325.143
5322.898
5320.770
5317.494
5312.904
5312.528
5312.002
5310.266
5307.465
5306.986
5305.770
5303.483
5301.404
5300.523
5298.282
5297.743
5296.278
5294.397
5291.816
5281.068
5277.500
5274.118
5266.710

row #3 / order #114 / RED Echelle / CD#3 @ 520nm / M1T
intensity (ADU)
position (pixel)
0
2000
4000
6000
0
1000
2000
3000
4000
5312.002
5317.494
5322.898
5325.143
5326.277
5329.374
5330.080
5340.498
5343.581
5347.971
5351.126
5351.836
5355.636
5358.706
5359.827
5360.150
5361.155
5362.575
5369.282
5369.447
5370.709
5372.702
5374.822
5375.352
5376.130
5376.780
5379.110
5382.927
5386.610
5388.050
5390.440
5392.572
5393.972
5394.760

row #4 / order #113 / RED Echelle / CD#3 @ 520nm / M1T
position (pixel)
intensity (ADU)
0
1000
2000
3000
4000
0
2000
4000
6000
5362.575
5369.282
5369.447
5370.709
5372.702
5374.822
5375.352
5376.130
5376.780
5379.110
5382.927
5386.610
5388.050
5390.440
5392.572
5393.972
5394.760
5398.701
5399.174
5400.145
5403.199
5407.653
5410.768
5415.491
5417.485
5421.346
5421.836
5424.008
5425.678
5426.407
5431.112
5434.151
5435.892
5437.387
5439.970
5440.601

row #5 / order #112 / RED Echelle / CD#3 @ 520nm / M1T
intensity (ADU)
position (pixel)
6000
4000
2000
0
0
1000
2000
3000
4000
5492.643
5488.628
5484.146
5479.075
5474.865
5473.440
5470.759
5464.205
5461.735
5458.967
5452.218
5451.650
5449.478
5447.153
5443.118
5440.601
5437.387
5435.892
5434.151
5431.112
5426.407
5425.678
5424.008
5421.836
5417.485
5415.491
5410.768
5407.653

row #6 / order #111 / RED Echelle / CD#3 @ 520nm / M1T
intensity (ADU)
position (pixel)
0
2000
4000
6000
0
1000
2000
3000
4000
5464.205
5470.759
5473.440
5474.865
5479.075
5484.146
5488.628
5492.643
5493.204
5494.330
5495.872
5499.255
5499.647
5501.281
5504.301
5506.112
5507.538
5508.558
5509.993
5514.073
5518.989
5524.582
5524.930
5527.295
5528.227
5537.130
5537.556
5538.608
5539.262
5539.910
5541.581

row #7 / order #110 / RED Echelle / CD#3 @ 520nm / M1T
position (pixel)
intensity (ADU)
0
1000
2000
3000
4000
0
2000
4000
6000
5588.750
5587.026
5583.762
5580.754
5580.077
5579.358
5577.700
5576.204
5573.353
5572.465
5571.191
5567.998
5564.201
5559.891
5558.202
5558.342
5557.045
5551.372
5552.623
5548.175
5542.890
5541.581
5539.910
5539.262
5538.608
5537.556
5537.130
5528.227
5527.295
5524.930
5524.582
5518.989
5514.873
5509.993

row #8 / order #109 / RED Echelle / CD#3 @ 520nm / M1T
position (pixel)
intensity (ADU)
0
1000
2000
3000
4000
0
2000
4000
6000
5557.045
5558.342
5559.891
5564.201
5567.998
5571.191
5572.465
5573.353
5576.204
5577.700
5579.358
5580.077
5580.754
5583.762
5587.026
5593.613
5595.063
5595.846
5597.460
5599.654
5601.603
5602.852
5604.515
5606.386
5606.732
5609.573
5610.231
5610.680
5612.068
5615.319
5619.975
5630.297
5632.872
5633.295
5639.746
5641.734

row #9 / order #108 / RED Echelle / CD#3 @ 520nm / M1T
intensity (ADU)
position (pixel)
0
2000
4000
6000
0
1000
2000
3000
4000
5606.732
5610.231
5610.680
5612.068
5615.319
5619.975
5630.297
5632.872
5633.295
5639.746
5641.734
5645.668
5646.451
5648.991
5650.703
5657.925
5659.130
5664.621
5665.180
5665.628
5667.128
5674.986
5677.053
5679.005
5681.900
5685.192
5691.710

row #10 / order #107 / RED Echelle / CD#3 @ 520nm / M1T
position (pixel)
intensity (ADU)
0
1000
2000
3000
4000
0
2000
4000
6000
5664.621
5665.180
5665.628
5667.128
5674.986
5677.053
5679.005
5681.900
5685.192
5691.710
5700.458
5700.917
5702.651
5707.103
5717.171
5719.623
5720.183
5724.253
5724.463
5725.388
5732.975
5736.029
5739.517
5741.170
5741.829
5748.741

row #11 / order #106 / RED Echelle / CD#3 @ 520nm / M1T
intensity (ADU)
position (pixel)
0
2000
4000
6000
0
1000
2000
3000
4000
5717.171
5719.623
5720.183
5724.253
5724.463
5725.388
5732.975
5736.029
5739.517
5741.170
5741.829
5748.741
5749.388
5753.026
5760.550
5762.794
5763.529
5767.778
5768.181
5771.760
5772.116
5773.946
5777.400
5781.658
5782.289
5789.645
5792.430
5796.068
5796.418
5797.319
5798.478
5800.829
5802.082

row #12 / order #105 / RED Echelle / CD#3 @ 520nm / M1T
intensity (ADU)
position (pixel)
0
2000
4000
6000
0
1000
2000
3000
4000
5768.181
5773.946
5777.400
5781.658
5782.289
5789.645
5792.430
5796.068
5796.418
5797.319
5798.478
5800.829
5802.082
5804.141
5807.681
5812.972
5815.422
5822.793
5830.827
5832.370
5834.263
5838.950
5840.640
5843.807
5845.918
5852.680
5853.474
5854.120

row #13 / order #104 / RED Echelle / CD#3 @ 520nm / MIT
intensity (ADU)
position (pixel)
0
2000
4000
6000
0
1000
2000
3000
4000
5914.671
5912.084
5911.229
5908.935
5905.570
5904.159
5899.844
5895.281
5894.698
5891.451
5889.955
5888.592
5886.531
5885.701
5882.625
5871.182
5870.552
5869.850
5868.374
5866.811
5863.718
5860.315
5859.668
5854.120
5853.474
5852.680
5845.918
5843.807
5840.640
5838.950
5834.263
5832.370
5830.827

row #14 / order #103 / RED Echelle / CD#3 @ 520nm / M1T
position (pixel)
intensity (ADU)
0
1000
2000
3000
4000
0
2000
4000
6000
5882.625
5885.701
5886.531
5888.592
5889.953
5891.451
5894.698
5895.281
5899.844
5904.159
5905.570
5908.935
5911.229
5912.084
5914.671
5916.728
5918.944
5922.802
5925.403
5926.232
5927.130
5928.805
5929.480
5929.934
5936.386
5937.162
5938.825
5942.668
5944.647
5948.799
5949.260
5955.561
5959.673
5962.056
5969.737
5971.590

row #15 / order #102 / RED Echelle / CD#3 @ 520nm / M1T
intensity (ADU)
position (pixel)
6000
4000
2000
0
0
1000
2000
3000
4000
6030.445
6025.140
6023.224
6021.035
6015.422
6013.680
6011.533
6010.160
6007.072
6005.740
6005.165
6001.203
6000.762
5999.000
5996.629
5994.128
5991.007
5989.044
5987.289
5986.266
5981.900
5975.064
5973.664
5971.590
5969.737
5962.056
5959.673
5955.561
5948.799
5944.647
5942.668
5938.825
5937.663

row #16 / order #101 / RED Echelle / CD#3 @ 520nm / M1T
position (pixel)
intensity (ADU)
0
1000
2000
3000
4000
0
2000
4000
6000
5994.128
5999.000
6000.762
6001.203
6005.165
6005.740
6007.072
6010.160
6011.533
6013.680
6015.422
6021.035
6023.224
6025.140
6030.445
6032.124
6032.872
6033.413
6035.192
6037.697
6038.680
6042.589
6043.230
6044.432
6049.051
6052.721
6053.380
6055.593
6059.373
6061.536
6065.779
6069.020
6073.103
6077.105
6077.822
6078.421
6079.222
6085.374
6087.262
6088.030

row #17 / order #100 / RED Echelle / CD#3 @ 520nm / M1T
position (pixel)
intensity (ADU)
0
1000
2000
3000
4000
0
2000
4000
6000
6059.373
6061.536
6065.779
6069.020
6073.103
6077.105
6077.872
6078.421
6079.222
6085.374
6087.262
6088.030
6090.760
6098.120
6101.160
6101.725
6102.594
6104.568
6105.645
6107.533
6112.837
6114.920
6116.166
6119.699
6120.556
6121.407
6122.214
6123.380
6124.480
6125.739
6129.545
6137.926
6138.670
6145.430
6150.683

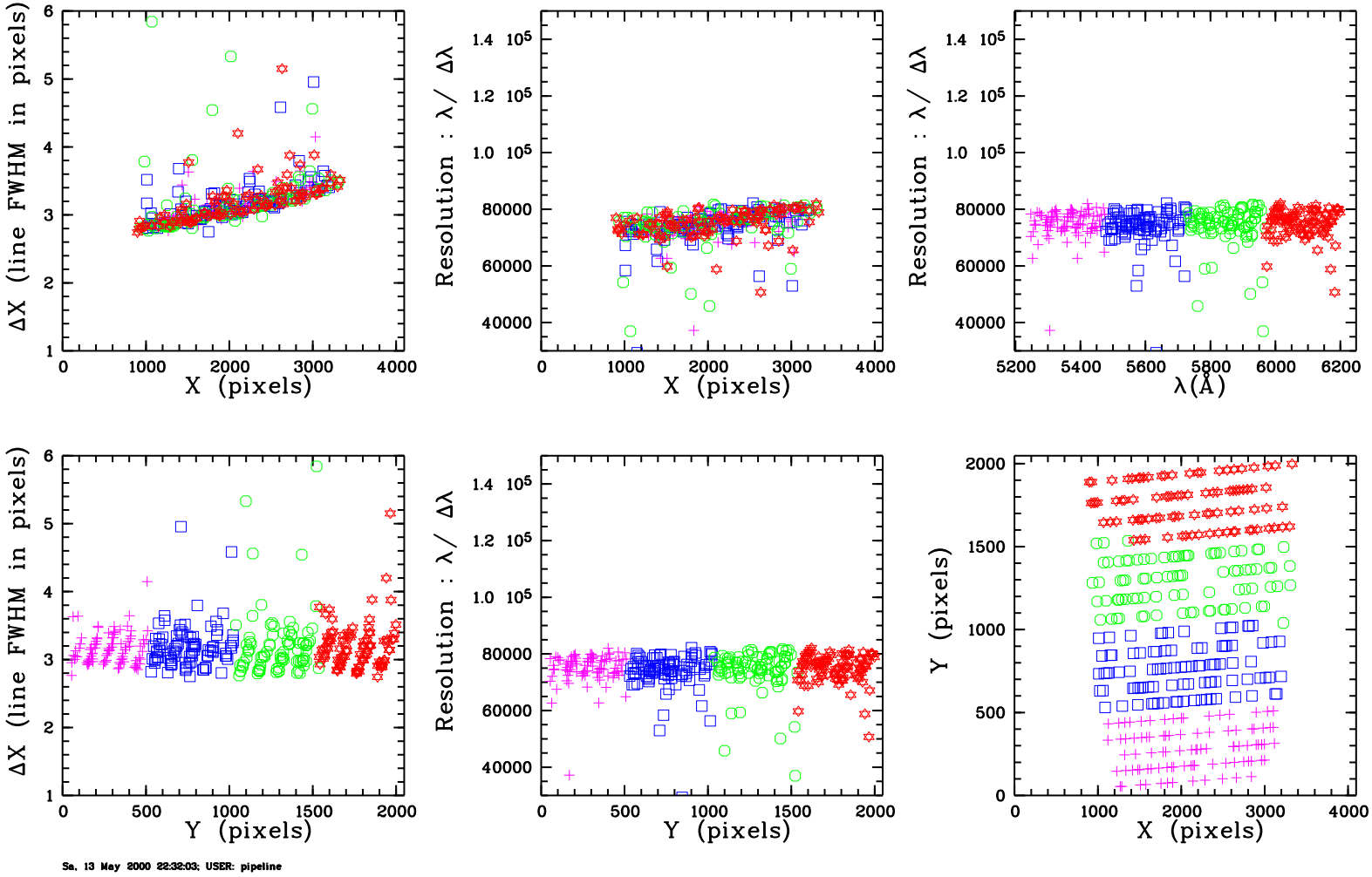
row #18 / order #99 / RED Echelle / CD#3 @ 520nm / M1T
position (pixel)
intensity (ADU)
0
1000
2000
3000
4000
0
2000
4000
6000
6212.507
6208.686
6205.860
6203.492
6198.222
6193.856
6191.905
6188.125
6184.778
6182.621
6180.705
6178.431
6173.106
6169.822
6167.280
6164.479
6162.170
6161.353
6157.087
6155.581
6154.516
6154.068
6151.993
6150.683
6145.430
6138.670
6137.926
6129.545
6127.380
6125.739
6124.480
6123.380
6121.407
6120.556
6119.699
6114.920

Central wavelength: 520.0 nm, slit: 0.5 arcsec, CCD: MIT, 9.8 °C

Filename : UVES_RED_CAL134.fits, Observ. date: 2000-05-13T20:32:07

Median(DX) = 3.134 pix , Mean(DX) = 3.3 pix , σ(DX) = 0.8 pix

Median(RES) = 75289.438 , Mean(RES) = 74164.0 , σ(RES) = 7383.9



Sa, 13 May 2000 22:32:03; USER: pipeline