15 April 2015

Possible Causes of Wonky Final Spectra

- Flat field structure fit (11th order)
  maybe flat problem

- ~~ID~~ ing λ-cal lines correctly

- ~~Fitting~~ λ-cal (7th order, deleted pts

- ~~Band passes in standards~~ (deleted all abs features)

- Fitting sens func^{q} (5th order) contributes, not only pro

Troubleshooting, pt 2 15 April 2015

FLAT FIELD

restarting everything >.<

still a problem. The fit looks like it fits the flatfield but the issue still stands

editing ~~aa~~ raw2extract
- don't ask abt trace/apertures (I know they're fine)

also OI -shift ~~and shift.py~~ so not interactive ~~don't~~

Deleted most of the bright peak from the flat, fit w/ spline1

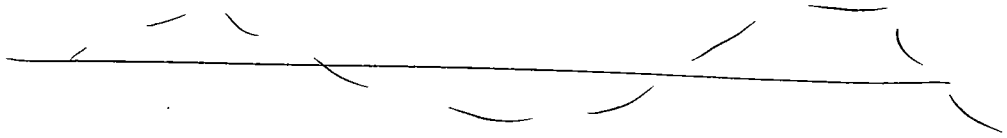
Nope

Completely skipping flatfielding

WOW That mess at the blue end is gone BUT ~~the~~ Feige 34 still looks wrong

Jules advice

check reduction of flat (polynomial fitting)



Check OSMOS manual for add'l refs

Wonky Final Spectra - troubleshooting

15 April 2015

> cp -r feb20/ feb20_testing/

Now work backwards (ish)

- ~~Std~~ ☆ bandpasses + fit
  - ~~deleted~~ fewer points in that mess on the blue side
  - ~~3rd~~ order fit

  ~~deleting~~ no points/no editing bandpasses
  ~~3rd~~ order fit

  (I really think its the flat field)

- λ-calibration redone

  ~~X~~o bandpass edit / 3rd order fit

  " / 5th order fit

  On the 5th order fit def. adds extra wiggles

  But the 3rd order fit is still not right

Troubleshooting pt 3

18 April 2015

- So I think its a combination of the flat-field fit and the flux standard/sensitivity fit
- I don't know what to do about the flat, besides try to take sky flats next time
- For the sensfunc fit, need to delete the endpoints until the 5000-7500Å region has flat residuals. A 3rd order fit suffices