



Fiber illumination uniformity March24

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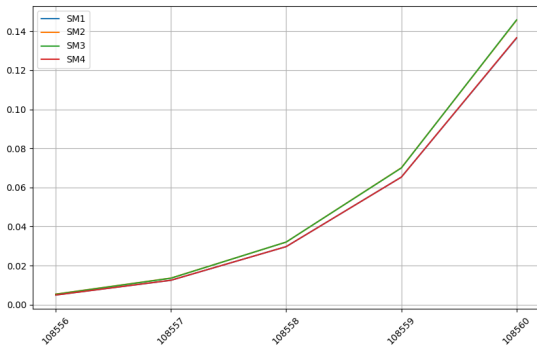
v1

2024-04-18

Table of Contents

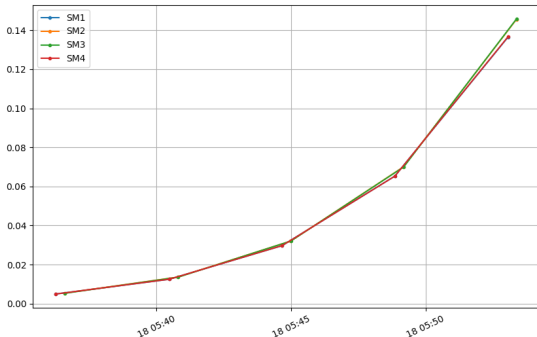
1. Twilight normalized flux per SM vs visit
2. Twilight normalized flux per SM vs dateobs
3. Twilight normalized by 108561-108562 INSROT 90
4. Twilight normalized by 108563-108564 INSROT 0
5. Fitting 1st order polynomial to the normalized twilight
6. Correcting twilight gradient
7. Correcting for screen response
8. Normalized twilight + screen response corrected
9. Ratio between the two quartzes as predicted by model
10. Comparing normalized twilight B arm
11. Comparing normalized twilight R arm
12. Blue Arm QTH INSROT 0 divided by INSROT 90
13. Red Arm QTH INSROT 0 divided by INSROT 90
14. Blue model as corrected by red model
15. Model INSROT 0
16. Ratio to mean model INSROT 0
17. 850nm QTH INSROT 0 divided by INSROT 90 normalized by per-fiber mean
18. Model INSROT 0

Twilight normalized flux per SM vs visit



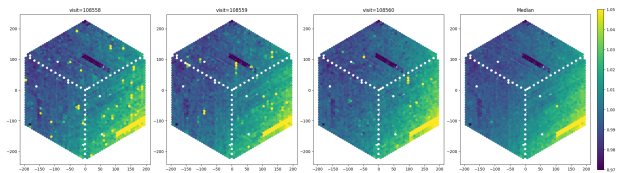
data between SM14 SM23 are diverging.

Twilight normalized flux per SM vs dateobs

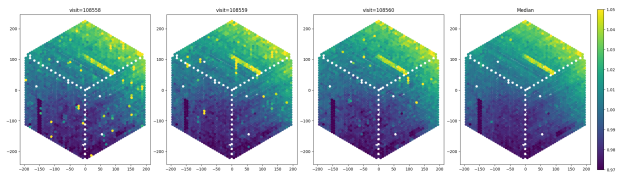


Because spectrograph were not synchronised, SM14 (no N arm) were observed 20s earlier hence a lower flux

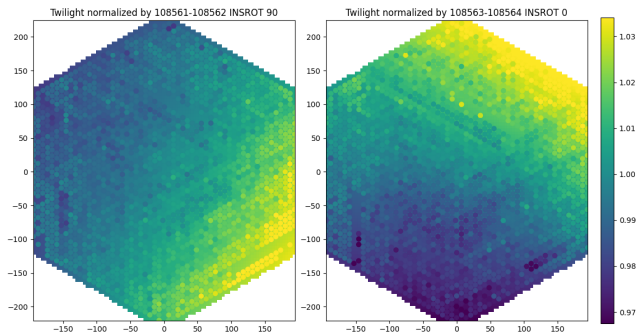
Twilight normalized by 108561-108562 INSROT 90



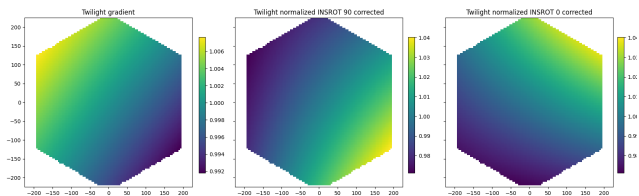
Twilight normalized by 108563-108564 INSROT 0



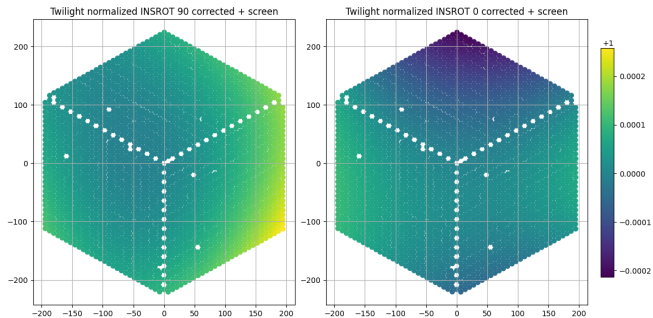
Fitting 1st order polynomial to the normalized twilight



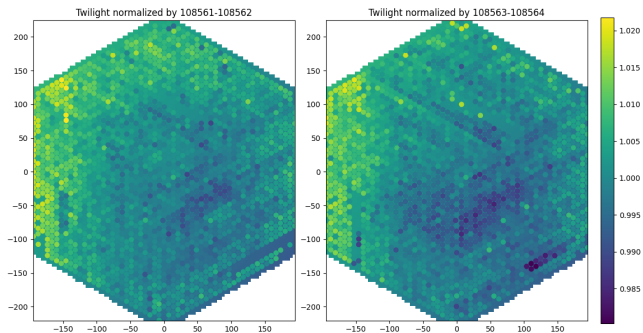
Correcting twilight gradient



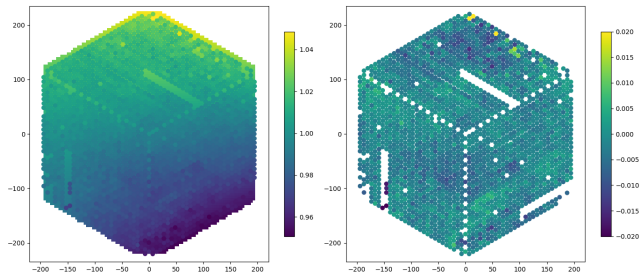
Correcting for screen response



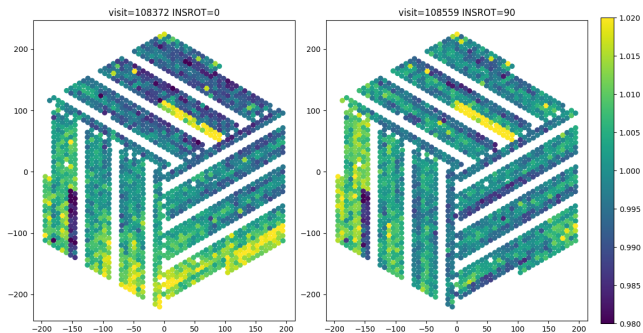
Normalized twilight + screen response corrected



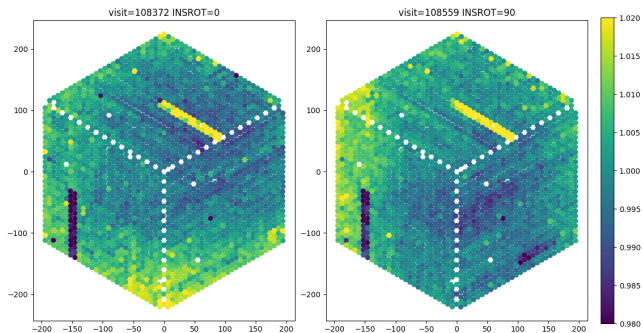
Ratio between the two quartzes as predicted by model



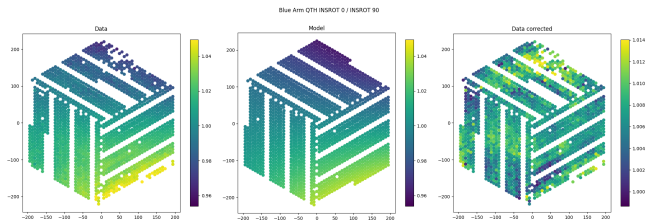
Comparing normalized twilight B arm



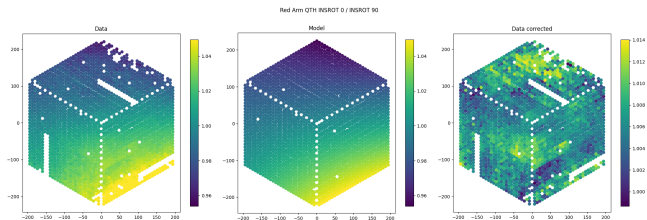
Comparing normalized twilight R arm



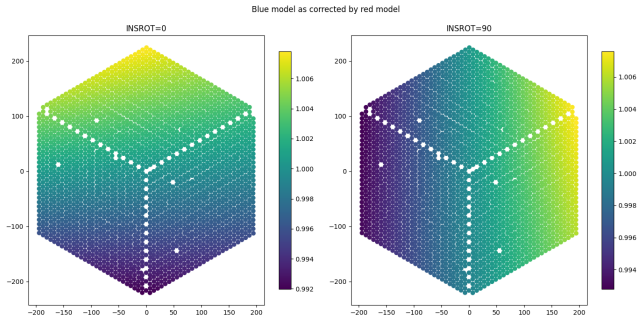
Blue Arm QTH INSROT 0 divided by INSROT 90



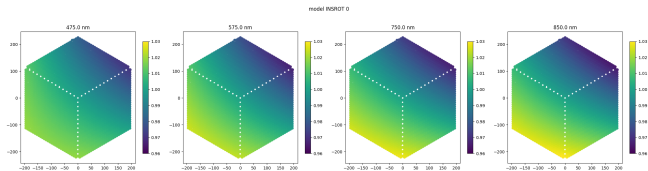
Red Arm QTH INSROT 0 divided by INSROT 90



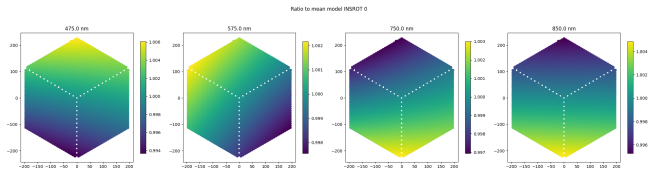
Blue model as corrected by red model



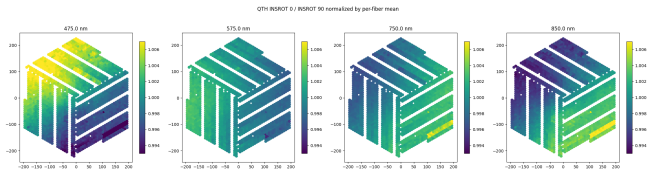
Model INSROT 0



Ratio to mean model INSROT 0



850nm QTH INSROT 0 divided by INSROT 90 normalized by per-fiber mean



Model INSROT 0

