



13576 - IR grisms: cross check sensitivity function of hot and cool stars

Cycle: 21, Proposal Category: CAL/WFC3

(Availability Mode: RESTRICTED)

INVESTIGATORS

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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) BD+52-913	WFC3/IR	1	01-Nov-2013 21:45:40.0	yes

1 Total Orbits Used

ABSTRACT

Goals: To provide a cross check on the sensitivity functions of the -1st and +1st grism spectral orders.

Scanned observations of a G type star, P330E, in the -1st and +1st grism orders show 5%-10% discrepancy in the sensitivity function derived from this star when compared to that of the sensitivity function determined from the WD standards, GD71 & GD153. We propose to obtain scanned spectra of at hot WD at the same locations on the IR array as for P330E (and Vega) to investigate the source of this discrepancy: scan vs. stare mode, hot star vs. cool star.

OBSERVING DESCRIPTION

spectra of GD 191B2B are obtained with both WFC3/IR grisms, G102 and G141, at the same locations on the IR array as for P330E (and Vega, obtained with Program 12336) to acquire signals of ~50000 e-/pix in the +1st order, and at least 500 e-/pix in the -1st order, at a rate of ~0.004 arcsec/sec (30 sec/pixel)

3 positions per grism

Proposal 13576 - G191B2B (01) - IR grisms: cross check sensitivity function of hot and cool stars

Sat Nov 02 01:45:49 GMT 2013

Visit	Proposal 13576, G191B2B (01) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 160D TO 180 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	BD+52-913	RA: 05 05 30.6128 (76.3775533d) Dec: +52 49 51.96 (52.83110d) Equinox: J2000			V=11.69	Reference Frame: SIMBAD			
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	G191B2B G 141	(1) BD+52-913	WFC3/IR, MULTIACCUM, IR	G141	NSAMP=10; SAMP-SEQ=SPAR S10	POS TARG 23,-25		92.940958 Secs (92.941 Secs) [==>]	[1]
	2	G191B2B G 141	(1) BD+52-913	WFC3/IR, MULTIACCUM, IR	G141	NSAMP=10; SAMP-SEQ=SPAR S10	POS TARG 23,0		92.940958 Secs (92.941 Secs) [==>]	[1]
	3	G191B2B G 141	(1) BD+52-913	WFC3/IR, MULTIACCUM, IR	G141	NSAMP=10; SAMP-SEQ=SPAR S10	POS TARG 24,10		92.940958 Secs (92.941 Secs) [==>]	[1]
	4	G141 Ref	(1) BD+52-913	WFC3/IR, MULTIACCUM, G141-REF	F127M	NSAMP=2; SAMP-SEQ=RAPID	POS TARG 23,0		5.864582 Secs (5.865 Secs) [==>]	[1]
	5	G191B2B G 141	(1) BD+52-913	WFC3/IR, MULTIACCUM, IR	G141	NSAMP=10; SAMP-SEQ=SPAR S10	POS TARG 23,+25		92.940958 Secs (92.941 Secs) [==>]	[1]
	6	G191B2B G 102	(1) BD+52-913	WFC3/IR, MULTIACCUM, IR	G102	NSAMP=11; SAMP-SEQ=SPAR S10	POS TARG 29.5,-25		102.941921 Secs (102.942 Secs) [==>]	[1]
	7	G191B2B G 102	(1) BD+52-913	WFC3/IR, MULTIACCUM, IR	G102	NSAMP=11; SAMP-SEQ=SPAR S10	POS TARG 29.5,0		102.941921 Secs (102.942 Secs) [==>]	[1]
	8	G191B2B G 102	(1) BD+52-913	WFC3/IR, MULTIACCUM, IR	G102	NSAMP=11; SAMP-SEQ=SPAR S10	POS TARG 29.5,10		102.941921 Secs (102.942 Secs) [==>]	[1]
	9	G191B2B G 102	(1) BD+52-913	WFC3/IR, MULTIACCUM, IR	G102	NSAMP=11; SAMP-SEQ=SPAR S10	POS TARG 29.5,+2 5		102.941921 Secs (102.942 Secs) [==>]	[1]
10	G102 Ref	(1) BD+52-913	WFC3/IR, MULTIACCUM, G102-REF	F127M	NSAMP=2; SAMP-SEQ=RAPID	POS TARG 29.5,0		5.864582 Secs (5.865 Secs) [==>]	[1]	

