

LMI Filter Characterization

Quick Links

LDT Observer Information Home

Instrumentation

Applying for Observing Time

Observing Run Planning

At the Telescope (Printable Logsheets)

Target of Opportunity (ToO) Policies

After Your Observing Run

First-Time Users

Logistics

LDT Important Notes

Facility

LDT Science Schedule

LDT Staff

Telescope

Site Information

Weather

Acknowledging LDT

Selected Technical Publications

Instruments

Instrumentation Main Page

Facility Instruments:

Large Monolithic Imager (LMI)

DeVeny Optical Spectrograph

NIR Spectrograph (NIHTS)

Visitor / PI Instruments:

High-Res Spectrograph (EXPRES)

Speckle Imager (QWSSI)

High Speed Imager (POETS)

NIR Spectrograph (RIMAS)

User Manuals:

LMI Manual

DeVeny Manual

NIHTS Manual

Observing Planning

Applying for Observing Time

Planning Checklist

Remote Observing

Target of Opportunity (ToO) Policies

Target Lists

First-Time Users

Logistics

At the Telescope

Observing Quick Links

Target of Opportunity (ToO) Policies)

Remote Observing

LDT Startup Procedures

Closure Conditions

Night Feedback Form

End of Night Tasks

LMI filter characterization with dome flats using fixed exposure times.

Details for each filter are given on the [LMI Filter Information](#) page.

For .fits links, rename both the link and attachment as lmi.UTDate.Filter.#.fits.

Example: lmi.0011.fits in the U filter from 20191107 will be renamed lmi.20191107.U.0011.fits

To do this, click the '...' symbol click 'attachments' pageclick 'properties'. In Properties, you can rename a file. Once renamed, confluence will automatically label the link as it's file name on this page when attached.

Filter	Rough Exp Time (seconds)	Flat Lamp Config (lamp /Voltage)	Filter	Rough Exp Time (seconds)	Flat Lamp Config (lamp /Voltage)	Filter	Rough Exp Time (seconds)	Flat Lamp Config (lamp/Voltage)	Filter	Rough Exp Time (seconds)	Flat Lamp Config (lamp /Voltage)
U	180 / 4*	*IGRINS Lamps (~20k counts)	SL-u	300 / 4.5*	*IGRINS Lamps (~20k counts)	BC	120 / 3.5*	*IGRINS Lamps (~20k counts)	HalpHaOn	N/a	
B	10		SL-g	4		GC	150		HalpHaOff	N/a	

V	5		SL-r	4		RC	75		OIII	180	
R	4		SL-i	5		C2	N/a		YISH	N/a	
I	4		SL-z	4		CN	14*	*IGRINS Lamps (~20k counts)			
VR	3					OH	400*	*IGRINS Lamps (~20k counts)			
						UC	100 / 80*	LMI & IGRINS Lamps (~28k counts) / *IGRINS Lamps only (~20k counts)			

U Filter

UTDate	Exp Time (seconds)	Counts (ADU)	.fits link
20160430	180	~18500	lmi.20160430.U.0066.fits lmi.20160430.U.0067.fits lmi.20160430.U.0068.fits
20170511	180	~22000	N/a
20170804	180	~22000	N/a
20191107	180	~20000	lmi.20191107.U.0011.fits lmi.20191107.U.0012.fits lmi.20191107.U.0014.fits
20200823	180	~18100	lmi.20200823.U.0011.fits lmi.20200823.U.0012.fits lmi.20200823.U.0013.fits

B Filter

UTDate	Exp Time (seconds)	Counts (ADU)	.fits link
20160430	10	~21500	lmi.20160430.B.0063.fits lmi.20160430.B.0064.fits lmi.20160430.B.0065.fits
20170511	10	~25500	N/a
20170804	10	~25000	N/a
20191107	10	~21800	lmi.20191107.B.0015.fits lmi.20191107.B.0016.fits lmi.20191107.B.0017.fits
20200727	10	~20800	lmi.20200727.B.0054.fits lmi.20200727.B.0055.fits lmi.20200727.B.0056.fits

V Filter

UTDate	Exp Time (seconds)	Counts (ADU)	.fits link
20160411	5	~19500	lmi.20190411.V.0001.fit lmi.20160411.V.0002.fits lmi.20160411.V.0003.fits
20170511	5	~23000	N/a
20170804	5	~22500	N/a
20191107	5	~19600	lmi.20191107.V.0018.fits lmi.20191107.V.0019.fits lmi.20191107.V.0020.fits
20200727	5	~18100	lmi.20200727.V.0057.fits lmi.20200727.V.0058.fits lmi.20200727.V.0059.fits

R Filter

UTDate	Exp Time (seconds)	Counts (ADU)	.fits link
20160411	4	~21500	lmi.20160411.R.0007.fits lmi.20160411.R.0008.fits lmi.20160411.R.0009.fits
20170511	4	~25000	N/a
20170804	4	~25000	N/a
20191107	4	~22100	lmi.20191107.R.0021.fits lmi.20191107.R.0022.fits lmi.20191107.R.0023.fits
20200727	4	~20500	lmi.20200727.R.0060.fits lmi.20200727.R.0061.fits lmi.20200727.R.0062.fits

I Filter

UTDate	Exp Time (seconds)	Counts (ADU)	.fits link
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VR Filter

UTDate	Exp Time (seconds)	Counts (ADU)	.fits link
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20160430	4	~22500	lmi.20160430.l.0051.fits lmi.20160430.l.0052.fits lmi.20160430.l.0053.fits
20170511	4	~27000	N/a
20170804	4	~26500	N/a
20191107	4	~26500	lmi.20191107.l.0024.fits lmi.20191107.l.0025.fits lmi.10191107.l.0026.fits
20200727	4	~22900	lmi.20200727.l.0063.fits lmi.20200727.l.0064.fits lmi.20200727.l.0065.fits

20160430	3	~23000	lmi.20160430.VR.0069.fits lmi.20160430.VR.0070.fits lmi.20160430.VR.0071.fits
20170511	3	~27000	N/a
20191107	3	~23400	lmi.20191107.VR.0034.fits lmi.20191107.VR.0035.fits lmi.20191107.VR.0036.fits
20200727	3	~21800	lmi.20200727.VR.0066.fits lmi.20200727.VR.0067.fits lmi.20200727.VR.0068.fits

SL-u Filter

UTDate	Exp Time (seconds)	Counts (ADU)	.fits link
20160430	300	~18000	lmi.20160430.SL-u.0060.fits lmi.20160430.SL-u.0061.fits lmi.20160430.SL-u.0062.fits
20170511	300	~23000	N/a
20191107	300	~19000	lmi.20191107.SL-u.0040.fits lmi.20191107.SL-u.0041.fits lmi.20191107.SL-u.0042.fits
20200823	300	~17200	lmi.20200823.u.0023.fits lmi.20200823.u.0024.fits lmi.20200823.u.0025.fits
20200823	360	~20500	lmi.20200823.u.0026.fits lmi.20200823.u.0027.fits lmi.20200823.u.0028.fits

SL-g Filter

UTDate	Exp Time (seconds)	Counts (ADU)	.fits link
20160411	4	~17500	lmi.20160411.SL-g.0010.fits lmi.20160411.SL-g.0011.fits lmi.20160411.SL-g.0012.fits
20170511	4	~20000	N/a
20191107	4	~17700	lmi.20191107.SL-g.0043.fits lmi.20191107.SL-g.0044.fits lmi.20191107.SL-g.0045.fits
20200823	4	~16300	lmi.20200823.g.0029.fits lmi.20200823.g.0030.fits lmi.20200823.g.0031.fits
20200823	6	~24000	lmi.20200823.g.0032.fits lmi.20200823.g.0033.fits lmi.20200823.g.0034.fits

SL-r Filter

UTDate	Exp Time (seconds)	Counts (ADU)	.fits link
20160411	4	~22000	lmi.20160411.SL-r.0013.fits lmi.20160411.SL-r.0014.fits lmi.20160411.SL-r.0015.fits
20170511	4	~26000	N/a
20191107	4	~22400	lmi.20191107.SL-r.0049.fits lmi.20191107.SL-r.0050.fits lmi.20191107.SL-r.0051.fits
20200823	4	~20600	lmi.20200823.r.0036.fits lmi.20200823.r.0037.fits lmi.20200823.r.0038.fits

SL-i Filter

UTDate	Exp Time (seconds)	Counts (ADU)	.fits link
20160430	5	~22000	lmi.20160430.SL-i.0054.fits lmi.20160430.SL-i.0055.fits lmi.20160430.SL-i.0056.fits
20170511	5	~26000	N/a
20191107	5	~23300	lmi.20191107.SL-i.0052.fits lmi.20191107.SL-i.0053.fits lmi.20191107.SL-i.0054.fits
20200823	5	~21400	lmi.20200823.i.0042.fits lmi.20200823.i.0043.fits lmi.20200823.i.0044.fits

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SL-z Filter

UTDate	Exp Time (seconds)	Counts (ADU)	.fits link
20160430	4	~23500	lmi.20160430.SL-z.0057.fits lmi.20160430.SL-z.0058.fits lmi.20160430.SL-z.0059.fits
20170511	4	~28000	N/a
20191107	4	~25200	lmi.20191107.SL-z.0055.fits lmi.20191107.SL-z.0056.fits lmi.20191107.SL-z.0057.fits
20200823	4	~23500	lmi.20200823.z.0045.fits lmi.20200823.z.0046.fits lmi.20200823.z.0047.fits

BC Filter

UTDate	Exp Time (seconds)	Counts (ADU)	.fits link
20170511	120	~21000	N/a
20191107	120	~15000	lmi.20191107.BC.0027.fits lmi.20191107.BC.0028.fits lmi.20191107.BC.0058.fits
20200823	120	~13800	lmi.20200823.BC.0014.fits lmi.20200823.BC.0015.fits lmi.20200823.BC.0016.fits
20200823	210	~23500	lmi.20200823.BC.0017.fits lmi.20200823.BC.0018.fits lmi.20200823.BC.0019.fits

GC Filter

UTDate	Exp Time (seconds)	Counts (ADU)	.fits link
20191107	150	~21100	lmi.20191107.GC.0031.fits lmi.20191107.GC.0032.fits lmi.20191107.GC.0033.fits

RC Filter

UTDate	Exp Time (seconds)	Counts (ADU)	.fits link
20170511	75	~26000	N/a
20191107	75	~19100	lmi.20191107.RC.0037.fits lmi.20191107.RC.0038.fits lmi.20191107.RC.0039.fits
20200823	75	~18000	lmi.20200823.RC.0020.fits lmi.20200823.RC.0021.fits lmi.20200823.RC.0022.fits

OIII Filter

UTDate	Exp Time (seconds)	Counts (ADU)	.fits link
20170615	180	~20000	N/a

UT Date	Filter	Exposure Time (seconds)	Counts (ADU)		UT Date	Filter	Exposure Time (seconds)	Counts (ADU)		UT Date	Filter	Exposure Time (seconds)	Counts (ADU)
20160411	V	5	~19500		20170511	SL-u	300	~23000		20191107	U	180	~20000
20160411	R	4	~21500		20170511	SL-g	4	~20000		20191107	B	10	~21800
20160411	g'	4	~17500		20170511	SL-r	4	~26000		20191107	V	5	~19600
20160411	r'	4	~22000		20170511	SL-i	5	~26000		20191107	R	4	~22100
20160430	I	4	~22500		20170511	SL-z	4	~28000		20191107	I	4	~24300
20160430	i'	5	~22000		20170511	BC	120	~21000		20191107	BC	120	~15000
20160430	z'	4	~23500		20170511	RC	75	~26000		20191107	GC	150	~21100
20160430	u'	300	~18000		20170511	U	180	~22000		20191107	VR	3	~23400

[illegible]