DUNLAP INSTITUTE SUMMER SCHOOL 2019 Introduction to Astronomical Instrumentation

7 – 12 July 2019 Toronto, Ontario, Canada

	Monday	Tues	sday	Wedne	sday	Thursday		Friday			
MOR	Intro to Optics	Properties & Detection of Light: X-Ray		Spectroscopy		OIR Telescope Fundamentals		Radio Telescope Fundamentals: Interferometry			
N	BREAK										
I N G	Properties & Detection of	Properties & Detection of Light:		Adaptive Optics		OIR Design Consideration		Radio Design Considerations			
	Light: Optical	Microwav	e / Radio	Evaluation		Group Photo					
	LUNCH	Prof. De	v. Lunch	LUNCH		L	.UNCH	LUNCH			
A F T	Optical Design Lab	X- Ray Lab (A)	Radio Lab (B)	Radio Lab (A)	X- Ray Lab (B)	Wave- front Sensor Lab (A)	Interferometry Lab (B)	Interferometry Lab (A)	Wave- front Sensor Lab (B)		
E R					BREA						
x 0 0 z	Optical Design Lab	X-Ray Lab (A)	Radio Lab (B)	Radio Lab (A)	X- Ray Lab	Wave- front Sensor	Interferometry Lab (B)	Interferometry Lab (A)	Wave- front Sensor Lab (B)		
.,	N .			(B) Lab (A)			Evaluation	on			
					rip – unlap atory						

Room Assignments:

- Lectures Monday to Friday in AB107
- Optical Design lab in SS561
- X-Ray lab in MY380
- Radio lab in AB88
- Wavefront Sensor lab in MP 127
- Interferometry lab in AB88
- Reception/Registration in lobby of New College, 40 Wilcocks Street
- Professional Development Lunch in Main Activity Hall, Multi-faith Center, Koffler House

Room Key

AB = Astronomy & Astrophysics Building, 50 St. George Street

KP = Koffler House, 569 Spadina Crescent

NC = New College, 40 Willcocks Street

SS = Sidney Smith Hall, 100 St. George Street

MY= Myhal Centre for Engineering, 55 St. George Street

MP = McLennan Physical Laboratories, 255 Huron Street

Day 0: Sunday, 7 July 2019

Start	End	Time	Topic	Activities	Contact / Speaker	Facilitators	Rm
4:00 pm	5:30 pm	1:30	Welcoming /Registration		Sivanandam Gaensler		NC

Day 1: 8 July 2018, 8:45 am - 5:00 pm

Start	End	Time	Topic	Activities	Contact / Speaker	Facilitators	Rm
8:45 am	9:00 am	0:15	Welcome		Gaensler		AB107
9:00 am	10:20 am	1:20	Intro to Optics	Lecture	van Belle		AB107
10:20 am	10:40 am	0:20	COFFEE BREAK				Outside AB107
10:40 am	12:00 pm	1:20	Properties & Detection of Light: Optical	Lecture	Mazin		AB107
12:00 pm	1:30 pm	1:30	LUNCH				NC
1:30 pm	3:15 pm	1:45	Optical Design Lab	Lab	Sivanandam	Chen, Meyer	SS561
3:15 pm	3:30 pm	0:15	BREAK				
3:30 pm	5:15 pm	1:45	Optical Design Lab	Lab	Sivanandam	Chen, Meyer	SS561

Day 2: Tuesday, 9 July 2019, 8:50 am - 5:30 pm

Start	End	Time	Topic	Activities	Contact / Speaker	Facilitators	Rm
8:50 am	9:00 am	0:10	Announcements		Sivanandam		AB107
9:00 am	10:20 am	1:20	Properties & Detection of Light: X-ray	Lecture	Flanagan		AB107
10:20 am	10:40 am	0:20	COFFEE BREAK				Outside AB107
10:40 am	12:00 pm	1:20	Properties & Detection of Light: Microwave / Radio	Lecture	Vanderlinde		AB107
12:00 pm	1:30 pm	1:30	Professional Development LUNCH				KP
1:45 pm	3:30 pm	1:45	X-Ray Lab (Group A)	Lab	Alexandroff/ Reid	Nagy, Gill	MY380
			Radio Lab (Group B)		Ng	Rahman, MacKay, Cassanelli	AB88
3:30 pm	3:45 pm	0:15	COFFEE BREAK				Outside AB88
3:45 pm	5:30 pm	1:45	X-Ray Lab (Group A)	Lab	Alexandroff/ Reid	Nagy, Gill	MY380
			Radio Lab (Group B)		Ng	Rahman, MacKay, Cassanelli	AB88

Day 3: Wednesday, 10 July 2019, 8:50 am - 11:30 pm

Start	End	Time	Topic	Activities	Contact / Speaker	Facilitators	Rm	
8:50 am	9:00 am	0:10	Announcements		Sivanandam		AB107	
9:00 am	10:20 am	1:20	Spectroscopy	Lecture	Ramsay		AB107	
10:20 am	10:40 am	0:20	COFFEE BREAK				Outside AB107	
10:40 am	12:00 pm	1:20	Adaptive Optics	Lecture	Baranec		AB107	
12:00 pm	12:10 pm	0:10	Evaluation Part 1				AB107	
12:00 pm	1:30 pm	1:30	LUNCH				NC	
1:30 pm	3:15 pm	1:45	X-Ray Lab (Group B)	Lab	Alexandroff/ Reid/Nagy	Nagy, Gill	MY380	
			Radio Lab (Group A)		Ng	Rahman, MacKay, Cassanelli	AB88	
3:15 pm	3:30 pm	0:15	COFFEE BREAK				Outside AB88	
3:30 pm	5:15 pm	1:45	X-Ray Lab (Group B)	Lab	Alexandroff/ Reid/Nagy	Nagy, Gill	MY380	
			Radio Lab (Group A)		Ng	Rahman, MacKay, Cassanelli	AB88	
5:30 pm	6:30 pm	1:00	DINNER				NC	
6:45 pm	11:30 pm		Star Viewing at David Dunlap Observatory	Field Trip	Jaremus,		Outside AB	
				Meet at 6:4	Meet at 6:45pm in front of AB on 2 Russell St.			

Day 4: Thursday, 11 July 2019, 9:00 am - 5:15 pm

Start	End	Time	Topic	Activities	Contact / Speaker	Facilitators	Rm
9:00 am	10:20 am	1:20	OIR Telescope Fundamentals	Lecture	Sivanandam		AB107
10:20 am	10:40 am	0:20	COFFEE BREAK				Outside AB107
10:40 am	12:00 pm	1:20	OIR Design Considerations	Lecture	Kleinman		AB107
12:00 pm	12:05 pm		Group Photo		MacSween		AB107
12:05 pm	1:30 pm	1:25	LUNCH				NC
1:30 pm	3:15 pm	1:45	Wavefront Sensor Lab (Group A)	Lab	Ziegler	Butko/ Sivanandam	MP127
			Interferometry Lab (Group B)		Cassanelli	Rahman, MacKay, Ng	AB88
3:15 pm	3:30 pm	0:15	COFFEE BREAK				Outside AB88
3:30 pm	5:15 pm	1:45	Wavefront Sensor Lab (Group A)	Lab	Ziegler	Butko/ Sivanandam	MP12
			Interferometry Lab (Group B)		Cassanelli	Rahman, MacKay, Ng	AB88

Day 5: Friday, 12 July 2019, 9:00 am - 6:00 pm

Start	End	Time	Topic	Activities	Contact / Speaker	Facilitators	Rm
9:00 am	10:20 am	1:20	Radio Telescope Fundamentals: Interferometry	Lecture	Perley		AB 107
10:20 am	10:40 am	0:20	COFFEE BREAK				Outside AB107
10:40 am	12:00 pm	1:20	Radio Design Consideration	Lecture	Gaensler		AB107
12:00 pm	1:00 pm	1:00	LUNCH				NC
1:00 pm	2:45 pm	1:45	Wavefront Sensor Lab (Group B)	Lab	Ziegler	Butko/ Sivanandam	MP 127
			Interferometry Lab (Group A)		Cassanelli	Rahman, MacKay, Ng	AB88
2:45 pm	3:00 pm	0:15	COFFEE BREAK				Outside AB88
3:00 pm	4:45 pm	1:45	Wavefront Sensor Lab (Group B)	Lab	Ziegler	Butko/ Sivanandam	MP127
			Interferometry Lab (Group A)		Cassanelli	Rahman, MacKay, Ng	AB88
4:45 pm	5:15 pm	0:30	Synthesis & Final Evaluation		Gaensler	Sivanandam	AB107
5:30 pm	6:15 pm	0:45	COOKIES & TEA			Astro Lounge	AB 201

Last Updated: July 5, 2019