

**Laboratory for Innovation in Optomechanics (LIOM): Workshop 3, The Small ELF telescope, achieving optical coherence  
(1st DRAFT)**

<b>Time</b>	<b>What</b>	<b>Who</b>
<b>Monday Feb.3</b>		
12:00	Introduction	Jeff, Nicolas, Rafa, Valentin, Victor
12:30	Science with SELF	Nicolas, Max, (SETI)
13:00	LIOM/SELF/ELF Messaging	Aux, Natalia, Cindy, Britta, Hamid
14:00	Lunch	
16:00	SELF Optics Concept Overview	Jeff, Natalia
16:30	Wavefront Sensing	Maud, Stuart, Auxi
18:00	Adjourn	
<b>Tuesday Feb. 4</b>		
9:30	Synergistic programs: SURI, ...	Stuart, Maud, Justin, Rafa, Pete
12:00	Mirror Optomechanics, controls	Jeff, Patricia, Alejandro, Aleksei, Diego
13:00	Achieving coherence	Jeff, Auxi
14:00	Lunch	
16:00	SELF manufacturing update	Sergio, Ye, Nicolas
18:00	Adjourn	
<b>Wednesday Feb.5</b>		
9:30	Mirror Manufacturing	Gil, Niko, Lingtong, Jose Luis
11:00	SELF instruments	Jannick
12:00	Photonic instruments	Pradip, Sudhakhar,
14:00	Lunch	
16:00	Assessing hard problems, discussions	Leads
	Solving vibration	Wolfgang, Ed
	Achiving coherence	Ed, Wolfgang
	Wavefront sensing	Stuart
	Effective Messaging	Auxi, Natalia
	Preparing for ELF	Rafa
18:00	Adjourn	

**Thursday Feb. 6** Celeste Kickoff Program (TBD)

**Friday Feb. 7** Are we alone, Search for Life, Museum

16:00	Why ELF/SELF at IAC	Jeff
16:15	Contact (English/Spanish Subtitles) or Life Beyond	
17:00	15 min intermission	
18:45	Panel Discussion The Search for ExoLife	Hector, Eva
	What is life	
	Do you believe we'll find it in our lifetime	
	What does it mean if we don't find it	
	How should we prepare for this contact	
	Is there danger in advertising our message to the universe	
	(more of your choice...)	
2000	Adjourn	

**Saturday Feb. 8** Museum Public Talk, Search for Life

17:00 Public Speaker introduction  
17:15 Public Talk TBD

**Contributions (TBD)**

Auxi	Photonic wavefront sensing
Natalia	SELF coherent and incoherent optical modeling
Ian	Recovering telescope performance with speckle coherence
Jeff	Algorithms and designs for bootstrap alignment to coherence
Lingtong	Phase I SELF mirrors: thin conventional polishing
Diego	Status Control system for SELF
Patricia	Status of M1 optomechanics
Alejandro	Status of M2 optomechanics
Aleksei	Status of beam combining optomechanics
Max	SELF target sensitivity, image inversion plans
Stuart	GSU SURF status and plans
Justin	Machine learning in optomechanics
Pradip	Photonic spectroscopy

Sudhakar	Super-resolution opportunities
Gil	Status of Live mirror options
Maud	Progress to Design of SELF MZ AO
Cindy/Hamid/Britt	LIOM/SELF/ELF public messaging
Nicolas	SELF science targets
Rafa	LIOM/SELF and the CELESTE program
Niko	Update on thin mirrors
Antonio	Lessons learned: Experience building telescopes on Teide
Ye	Dome status
Sergio	Telescope status
Rafa	Celeste
Maud	Synergy
Stuart	SURI
Justin	USAF/SF interests
Pete	Other Private partners, synergistic programs