

Program L4AO-14 Workshop, Marseille 2023

Thursday, June 22

Friday, June 23

09:00	09:40	Registration and Coffee	Coffee
09:40	10:00		Session 4 (R&D - Part 2) Progress in diamond Raman lasers for sodium beacon applications <i>Speaker: Richard Mildren</i>
10:00	10:20	Workshop Welcome	Splitting of laser beams, a cheap solution to increase the number of LGSs <i>Speaker: Pierre Haguenauer</i>
10:20	10:40	Session 1 (Operations) Tell me where and when, and I will tell you your sodium <i>Speaker: Pierre Haguenauer</i>	Laser chirping to enhance the LGS return flux via reducing spectral hole burning effects <i>Speaker: Felipe Pedreros Bustos</i>
10:40	11:00	LAVA a new LGSF concept for the W.M. Keck Observatory <i>Speaker: Eduardo Marin</i>	Laser uplink atmospheric scattering: impact on CaNaPy LGS-AO system <i>Speaker: Tomas Fordey</i>
11:00	11:20	Manufacturing and Integration Status of ELT Laser Projection System <i>Speaker: Fred Kamphues & Max Baeten</i>	Estimate of Required Laser Power of Sodium Polychromatic LGS <i>Speaker: Ron Holzlohner</i>
11:20	12:00	Discussion	Discussion
12:00	13:20	Lunch	Lunch
13:20	13:40	Session 2 (Laser Avoidance) LASCAR: a LASer Contamination Avoidance Response at Paranal Observatory <i>Speaker: Philippe Duhoux & Pascale Higon</i>	Session 5 (Space Applications) ALASCA simulations in PASSATA: geometrical versus physical optics propagation <i>Speaker: Bernadett Stadler</i>
13:40	14:00	Laser Guide Stars and Satellite Constellations <i>Speaker: Julian Christou</i>	Uplink tip-tilt-focus estimation at point ahead angle from off-axis LGS and on-axis downlink measurements for satcom applications <i>Speaker: Laurie Paillier</i>
14:00	14:20	Subaru's GLAO System vs. Megaconstellations: A Space Odyssey <i>Speaker: Noelia Martinez</i>	Discussion
14:20	14:40	Discussion	LAM lab tour
14:40	15:00	Coffee Break	
15:00	15:20	Session 3 (R&D - Part 1) LGS Research at PUCV <i>Speaker: Pedro Escarate, Esteban Vera, Gustavo Rahmer</i>	
15:20	15:40	Elongated spots implementation on the wavefront sensor of the ELT laser guide star bench prototype <i>Speaker: Paul Rouquette</i>	Conclusion - End of Workshop.
15:40	16:00	Defining the Information Limit for a Laser Beacon <i>Speaker: Jeff Richey</i>	
16:00	16:20	Validating and Testing a Convolutional Model for Extended 3D Objects: An Application to the Pyramid Wavefront Sensor with Laser Guide Stars <i>Speaker: Francisco Oyarzún</i>	
16:20	17:00	Discussion	
19:30		Workshop Dinner	