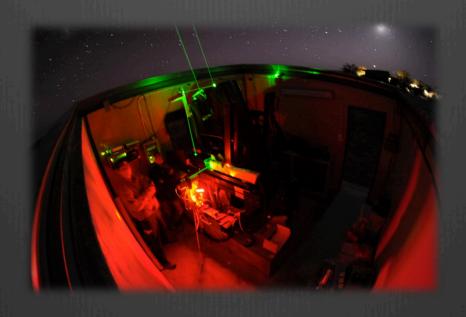
Update of the LUPM Raman Lidar



G. Vasileiadis



Concept

- Based on a completely rebuilt CLUE experiment telescope
- Re-built by a group of 4 (1ph+3 ITA) persons
 - Manpower issues pending
- An up to now 220k€ financed project (U.Montpellier II)
 - Missing a relatively modest sum to conclude



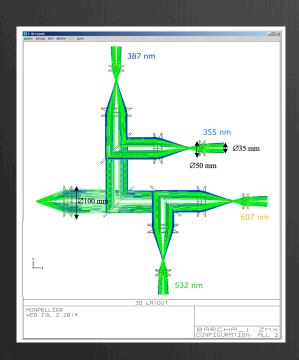
Actions till now (I)

- Rebuilt telescope mechanics
- Rebuilt Container
- Rebuilt Automation electronics
 - Panasonic Industrial
- New Mil spec Laser
 - Quantel CFR-400
- Mew DAQ
 - **⊗** LICEL- 4 channel
- Still some componets missing
 - Alignment system
 - Raymetrics 3k€
 - Laser mount assembly
 - Raymetrics (free)

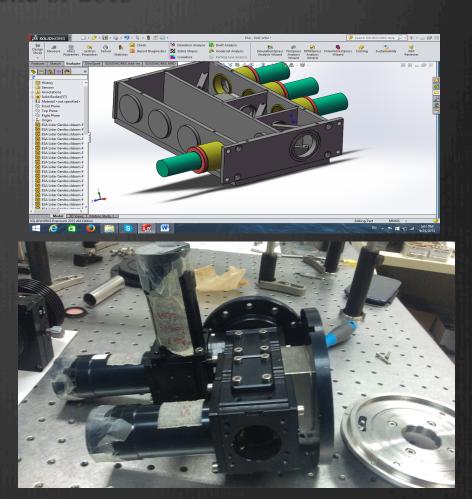


Actions till now (II)

- - Collaborative issued, custom made by Raymetrics Co.
 - Test scheduled at LUPM end of 2015







Actions till now (III)

- * Fiber based readout under consideration
 - Rigidity tests of telescope focal point not good enough for fiber
 - Danger of defocalization
 - Bending radius of fiber + movement deteriorate QE
 - Tests are been held at Raymetrics and Poly. School. Athenes
- - Install secondary mirror
 - Mount, if possible spectrometer at the back of the mirror
 - No fiber
 - Simplified design
 - Under study at Raymetrics



Plans 2015-2016 (I)

- Within the next semester
 - Finalize mechanical integration issues
 - Service Financial Constraints
 - Conclude on the bench tests
 - * DAQ, Automation, Laser Control
 - Start integrated all components
 - Preliminary tests at LUPM
 - No permission to use Laser
 - Schedule complete tests on an appropriate site

Plans 2015-2016 (II)

- Proposal under discussion within CTA Lidarists
 - Transport LUMP Raman Lidar on the CTA North site end of 2016

 - * "Help" validate atmosphere in conjuction with the first LST prototype tests
 - Raymetrics and the Lidar Dept at the Polytech. Athenes will help on data evaluation
 - Head of Dept will visit UB mid Mars 2016 (for other reasons, occasion to discuss)