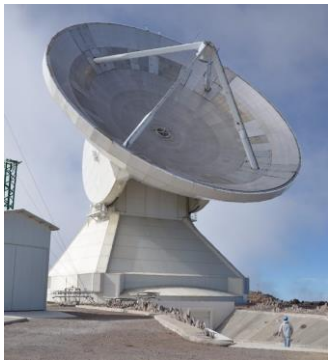
For Immediate Release…

The Large Millimeter Telescope, or LMT, in Puebla, Mexico, has been upgraded with Media Lario technology to enable deeper observations into the history of the universe.

Milan, Italy, November 20, 2017 – Media Lario S.r.l., a world leader in advanced optical components and systems, announced today that the Instituto Nacional de Astrofísica, Óptica y Electrónica (INAOE) of Mexico has upgraded the Large Millimeter Telescope "Alfonso Serrano" with Media Lario technology to enable astronomical observations at unprecedented sensitivity and resolution. The new component, known as secondary mirror, or M2, was installed on 26 October in readiness for the start of the 2018 astronomical observing season. Media Lario also supplied the entire 50-m primary dish with over 1400 panels using the same patented technology.

Hoisting M2

M2 installed on the tetrapod head



View of the 50-m LMT

The Large Millimeter Telescope (LMT) is a 50-meter diameter 'big dish telescope' situated at the summit of volcano Sierra Negra at an altitude of 4600 meters, in central Mexico. Run by INAOE in collaboration with the University of Massachusetts Amherst, the telescope is designed for radio astronomical observations. The principal scientific goal of the LMT is to understand the physical process of structure formation and its evolutionary history throughout the Universe. The LMT will investigate the constitution of comets and planetary atmospheres, the formation of extra-solar planets ('exo-planets') and the birth and evolution of stars, the hierarchical growth of galaxies and clusters and their large-scale distribution, as well as the cosmic microwave background radiation.

The new M2 mirror now matches the technology used in the entire 50-m dish, also supplied by Media Lario between 2005 and 2015. The dish is composed of 1,440 panels making up the dish telescope surface. Composed of nine precisely shaped panels, the new M2 is lighter and more accurate than its predecessor.

David Hughes, Director for the LMT, commented, "With over twice the collecting area and a higher precision secondary over the full aperture, the LMT becomes a truly formidable facility for millimeter wave astronomers. The entire project team sends its congratulations to Media Lario as we enter this exciting phase of operations".

Jeff Lyons, CEO of Media Lario added, "Working on the LMT project has been a real challenge, but INAOE has been an excellent partner and we are grateful to them for placing their faith in us. The fact that they have selected Media Lario technology for the optics of their telescope is a testament to capability and creativeness of our talented team."

Media Lario is located north of the industrial hub of Milan, Italy, in the region of Lombardia, an area rich with opto-mechanical expertise and experience in the precision optical industry.

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For more information about the LMT, please visit http://www.lmtgtm.org/
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