

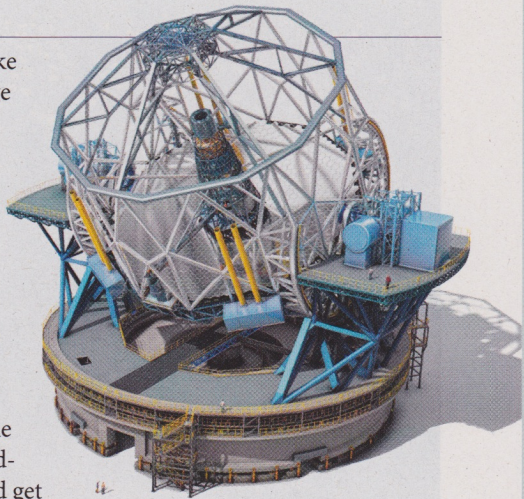
New facilities like extremely large telescopes and the James Webb Space Telescope are definitely going to kick off an amazing new era of astronomical observations. We already know that with these telescopes we'll be able to observe individual stars at incredible distances, continue finding new exoplanets, and get glimpses of the very first galaxies formed in our universe.

Still, I think the most intriguing things coming our way are the ones we haven't predicted. Historically, some of the most exciting discoveries in astronomy — Jupiter's moons,



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**The European Extremely Large Telescope, slated for completion in 2022, will have a 39.3-meter primary mirror. With this admittedly big glass, it will be able to detect exoplanets, early galaxies, and the infant stages of solar system formation.** ESO

the cosmic microwave background, gamma-ray bursts — were serendipitous events made possible by technological advances. This next generation of telescopes will undoubtedly reveal some pretty crazy and spectacular new discoveries; I can't wait to find out what they are!

— **Emily Levesque**, *Hubble Fellow at the University of Colorado, Boulder; AAS Annie Jump Cannon Award, 2014*