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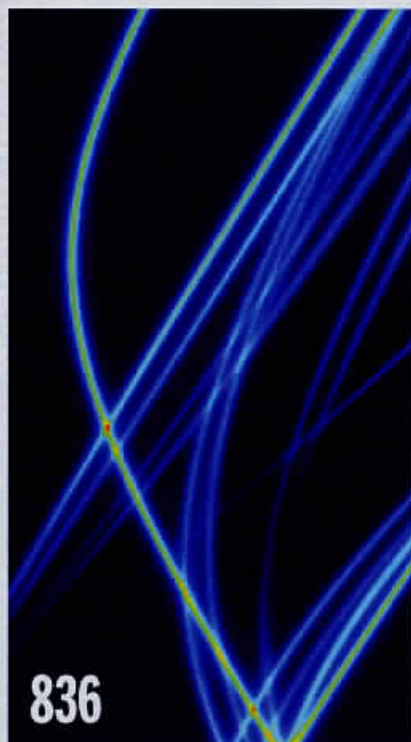
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## ON THE COVER



The \$8 billion James Webb Space Telescope, scheduled for launch in October 2018, will be the largest orbiting observatory ever built. This artist's conception shows its segmented mirror—one of several

innovative components designed to unfold in space en route to its final orbit 1.5 million kilometers from Earth, or roughly four times as far as the Moon. See page 804. Photo illustration: James Vaughan

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