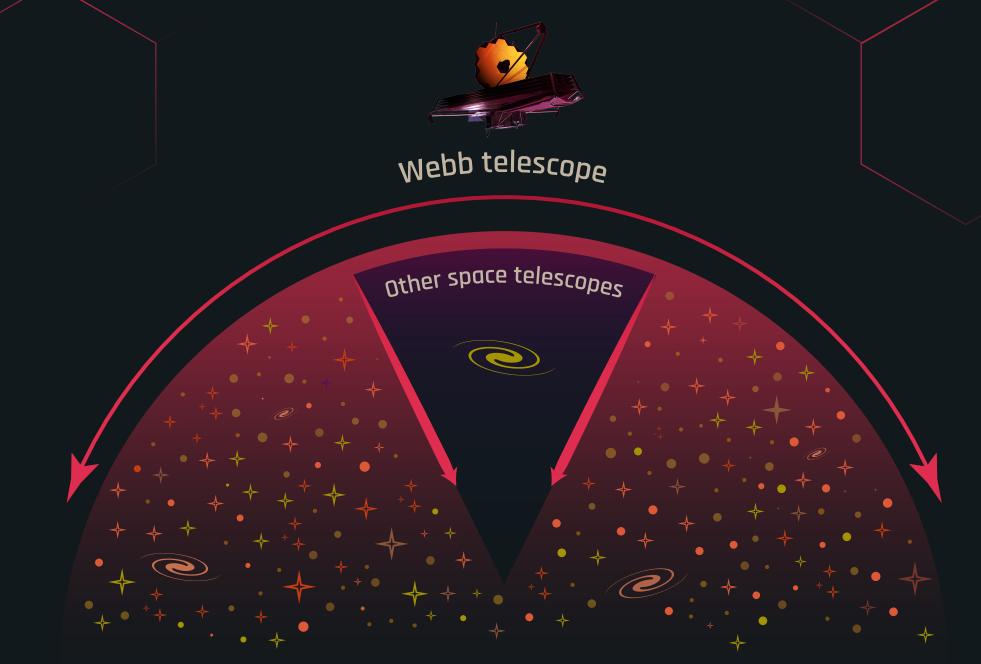
WEBB'S MICROSHUTTERS

NASA's James Webb Space Telescope's microshutter array will be the first in space! This device works with high-resolution instruments on the observatory to study stars and galaxies. How do they work? What do they do?



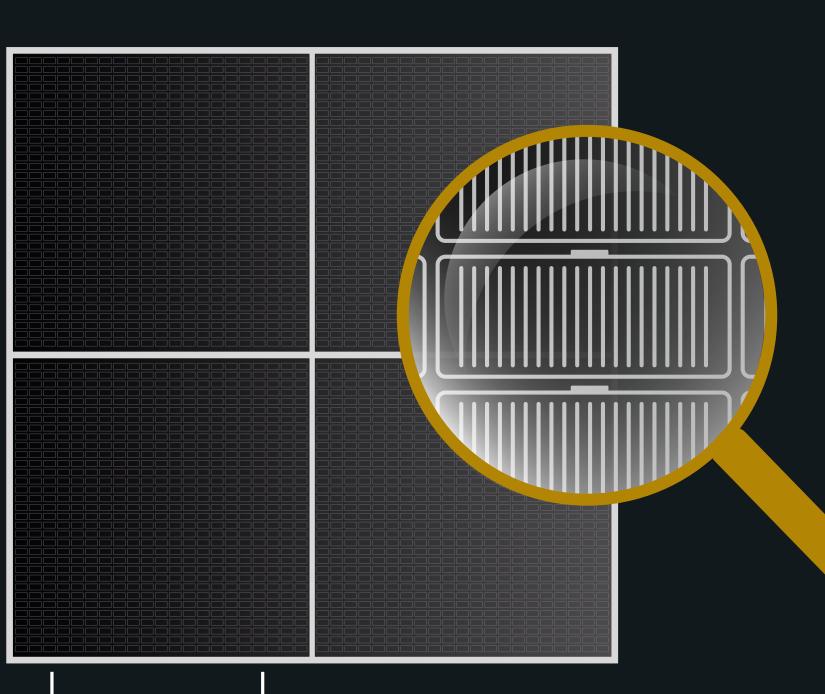
First microshutter array in space

Studies more stars and galaxies

1 observation = > 100 spectra

So Many, So Small

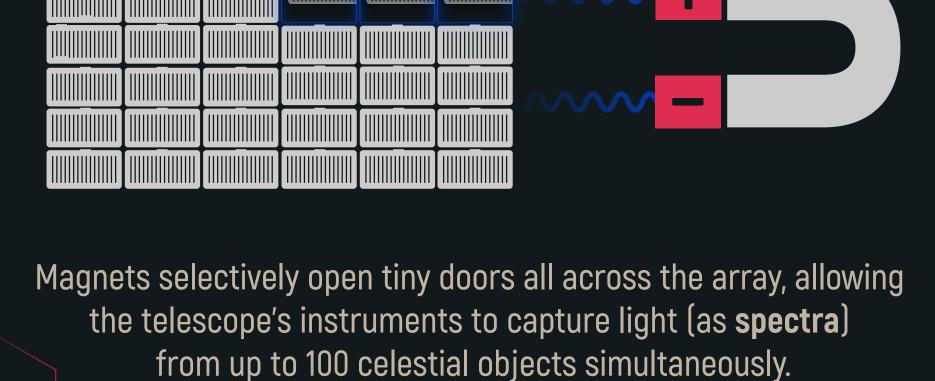
62,000 microshutters **x 4** quadrants = **248,000** microshutters



of a postage stamp

Each quadrant is the size

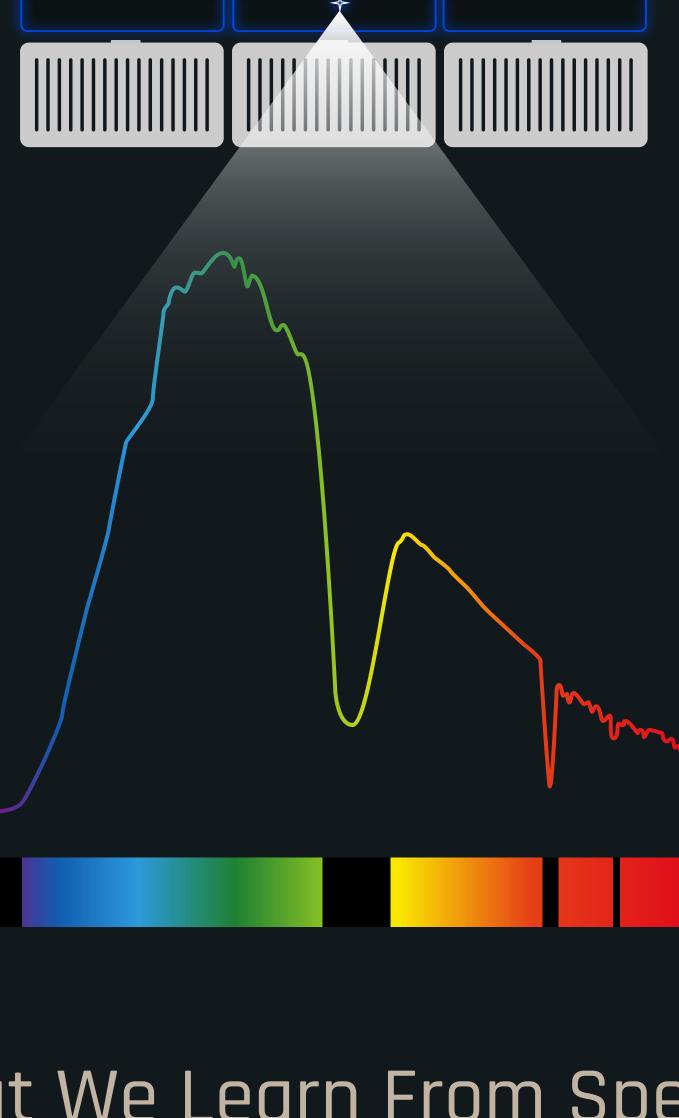
How It Works



Splitting Light

Instruments behind Webb's microshutters spread light into colorful

spectra, which help researchers learn about distant stars and galaxies.



What We Learn From Spectra



1D







