

STSCI 4780/5780

Lab03 — IDWGS, learning tips

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The 7th International Day of Women and Girls in Science



**United
Nations**

International Day of Women
and Girls in Science, 11
February

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- UN IDWGS Assembly
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Vera Rubin



Vera Rubin

From Wikipedia, the free encyclopedia

This article is about the astronomer. For the anthropologist, see Vera D. Rubin. For the astronomical observatory, see Vera C. Rubin Observatory.

Vera Florence Cooper Rubin (/rəˈbɪn/; July 23, 1928 – December 25, 2016) was an American astronomer who pioneered work on galaxy rotation rates.^{[1][2]} She uncovered the discrepancy between the predicted and observed angular motion of galaxies by studying galactic rotation curves. Identifying the galaxy rotation problem, her work provided the first evidence for the existence of dark matter.^[3] These results were confirmed over subsequent decades.

Beginning her academic career as the sole undergraduate in astronomy at Vassar College, Rubin went on to graduate studies at Cornell University and Georgetown University, where she observed deviations from Hubble flow in galaxies and provided evidence for the existence of galactic superclusters.^{[1][4]} She was honored throughout her career for her work, receiving the Bruce Medal, the Gold Medal of the Royal Astronomical Society, and the National Medal of Science, among others.^{[4][5]}

Rubin spent her life advocating for women in science and was known for her mentorship of aspiring female astronomers. She pioneered the field for many, and, in 2015, the National Science Foundation Vera C. Rubin Observatory (LSST) began construction. Her legacy was described by *The New York Times* as "ushering in a Copernican-scale change" in cosmological theory.^{[1][4]}

Vera Rubin



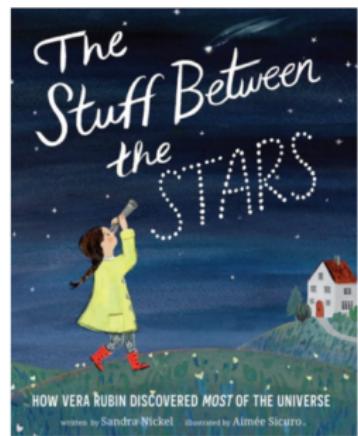
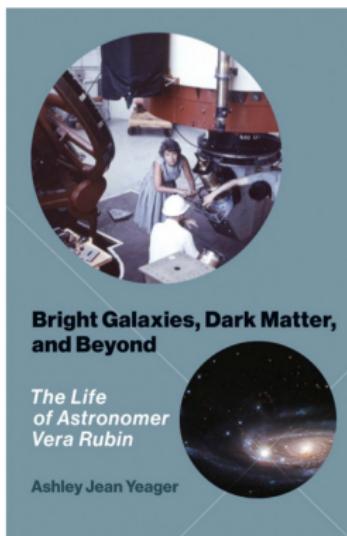
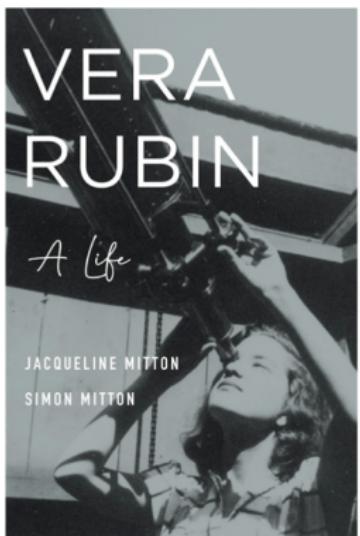
Vera Rubin in 2009

Born	Vera Cooper July 23, 1928 Philadelphia, Pennsylvania
Died	December 25, 2016 (aged 88) Princeton, New Jersey

The Vera C. Rubin Observatory



Three books on Vera Rubin in 2021:



MIT Press interview with *Bright Galaxies* author Ashley Jean Yeager

Two learning tips

- Your *pace of learning* will change — Sal Kahn on video-based education:
 - ▶ 08:18 — Persist until mastery
 - ▶ 13:32 — Different, evolving paces of learning
- Learn about *spaced repetition*:
 - ▶ Spaced repetition (Wikipedia)
 - ▶ The Spacing Effect: How to Improve Learning and Maximize Retention
 - ▶ While You Were Sleeping—Synapses Forged, Amyloid Purged