

STSCI 4780/5780

Lab03 — IDWGS, learning tips

Tom Lored, CCAPS & SDS, Cornell University

© 2022-02-11

The 7th International Day of Women and Girls in Science



United Nations

International Day of Women
and Girls in Science, 11
February

Search



A-Z Site Index

Home

International Day of Women and Girls in Science Assembly

Messages »

Resources

UN Observances



- UN IDWGS Assembly
- Wikipedia's IDWGS page
- WomenInScienceDay.org

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 (/ˈruːbɪn/; 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



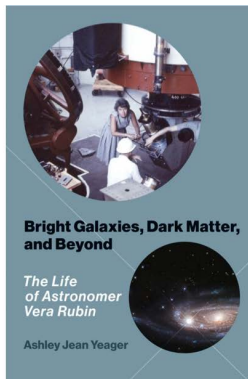
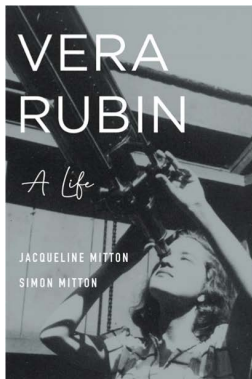
Vera Rubin in 2009

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
 - ▶ Mastery-based 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