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Hubble Space Telescope - Wide Field Camera NASA, ESA, J. Lee, and the PHANGS-HST Team; Acknowledgement: Judy Schmidt

years ago. Astronomers think the oppositely rotating gas arose when M64 absorbed a satellite galaxy, perhaps more than 1 billion At first glance, M64 appears to be a fairly normal pinwheel-shaped spiral galaxy with its stars rotating in the same direction, clockwise as seen in this Hubble image. However, the gas in the outer regions of M64 rotates in the opposite formation of new stars is occurring in the inner regions. Active the oppositely rotating gases collide, are compressed, and contract. Particularly noticeable are young, hot, blue stars along with pink clouds of glowing hydrogen gas that fluoresce when exposed to ultraviolet light from the newly formed stars.

A collision of two galaxies 17 million light-years away may have created Messier 64 (M64), a spiral galaxy with a spectacular dark band of absorbing dust in front of its bright nucleus. This unusually dark appearance gave rise to its nicknames of "Black Eye" or "Evil Eye" galaxy.

Black

Eye

Galaxy

