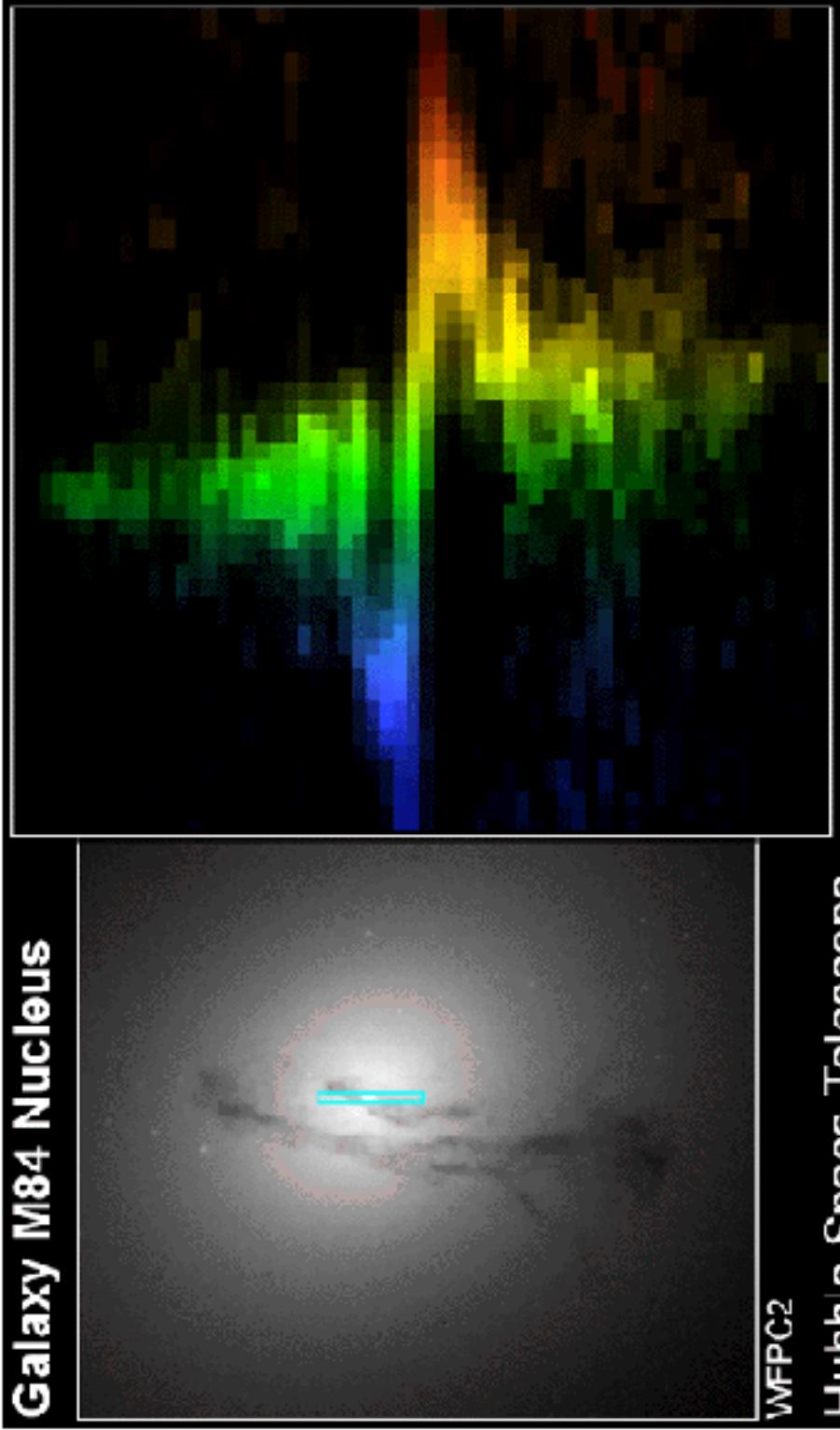


Galaxy M84 Nucleus



Hubble Space Telescope
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Figure 2: The left panel shows a WFPC2 image of the nucleus of the Virgo Cluster elliptical galaxy M84. Overlaid is a diagram depicting the position of the STIS long slit through which observations were taken in mode G750M, covering 6295-6867 Å. The right-hand panel shows a logarithmically scaled spectrum centered on the [NII] $\lambda 6583$ emission line. The dispersion axis (horizontal) covers a range of 1445 km/sec, while the spatial axis (vertical) covers 3''. The strong velocity shear observed is indicative of a nuclear black hole of several $\times 10^9$ solar masses. See Ref. 7 for details.