

Abstract Submitted
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Long Slit Spectroscopy of the Nearby Galaxy NGC 300 JARROD

JOHNS, JASON PINKNEY, Ohio Northern University — We present long slit spectroscopy of the nearby (1.9 Mpc) spiral galaxy NGC 300 from the Magellan I 6.5m Telescope. This galaxy is interesting because it is essentially bulgeless (type SA(s)d) but with a nuclear star cluster. We measured stellar kinematics and gas kinematics along 4 PAs which cross the nuclear cluster. The spectral resolution is, unfortunately, not high enough to measure the small velocity dispersion accurately. The line of sight velocities suggest very little rotation in the stellar disk even along the major axis. They also show a velocity rise at the central star cluster suggesting a small motion relative to the disk. We measure gas kinematics from the weak [OIII] 500.7 nm line and see erratic velocities near the nucleus.

Jason Pinkney
Ohio Northern University

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