

Abstract Submitted
for the OSS19 Meeting of
The American Physical Society

New gas kinematics for the pseudobulge galaxy NGC 1291

JUSTIN CHAPMAN, JASON PINKNEY, Ohio Northern University — We present new stellar and gas kinematics for the (R)SB(s)0/a galaxy NGC 1291 derived from long-slit spectroscopy taken with a Magellan 6.5-m telescope. Previously published stellar kinematics exist. This galaxy is of interest as it has an outer ring and both an outer bar and an inner bar. Also, it is a prototypical "pseudobulge". Pseudobulges differ from classical bulges in that they have supposedly formed out of gas inflow from the disk of the galaxy over an extended time period. Our gas kinematics are not what we would expect from this hypothesis. They show a very asymmetric rotation compared to the stellar component, i.e., the gas is decoupled from the stars.

Jason Pinkney
Ohio Northern University

Date submitted: 11 Mar 2019

Electronic form version 1.4