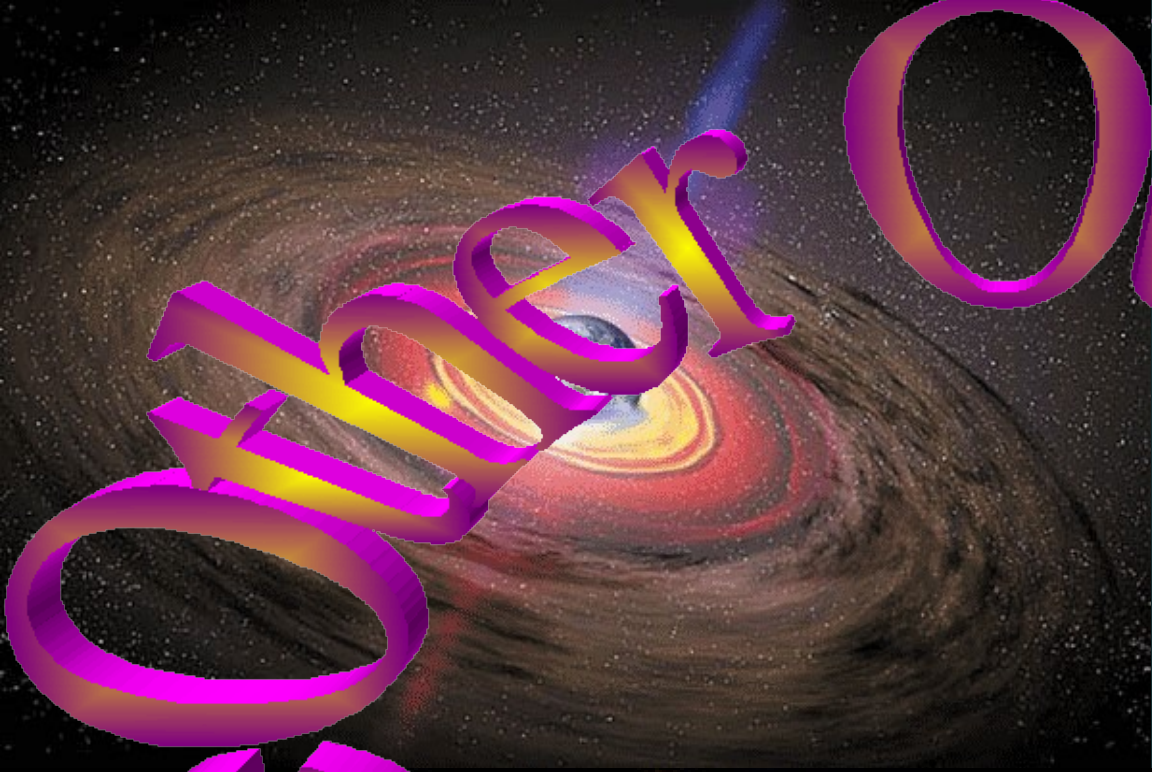


Other Objects in the Universe



ACQUA



A
Planetary
Nebula
surrounds
a dying
star...
(size on
scale of
solar
system)



Some nebulae are results of massive, very unstable stars



V 838 Monocerotis



Some
nebulae
are stellar
nurseries

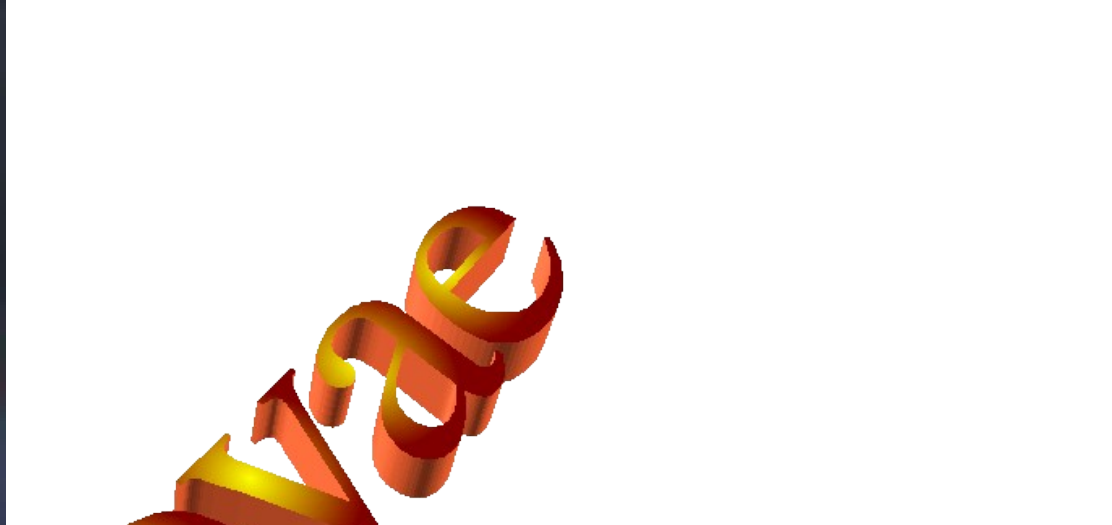
...

(These
are many
light years
in size)





Some represent birth AND death... (Eta Carinae lies within the Keyhole Nebula)



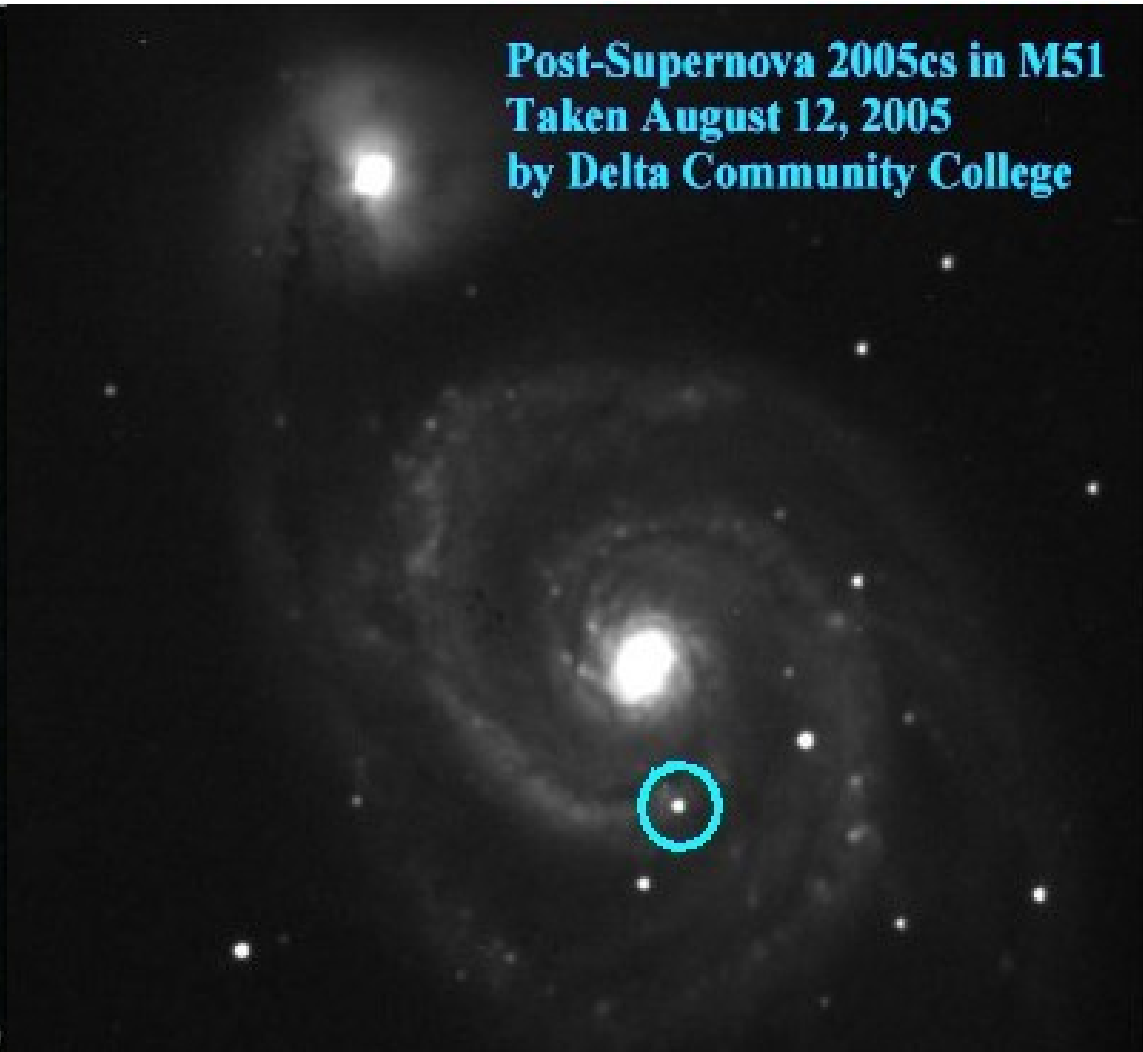
Supernovae

M51

Pre-Supernova 2005cs in M51
Taken March 28, 2005
by Brad Farrington



Post-Supernova 2005cs in M51
Taken August 12, 2005
by Delta Community College

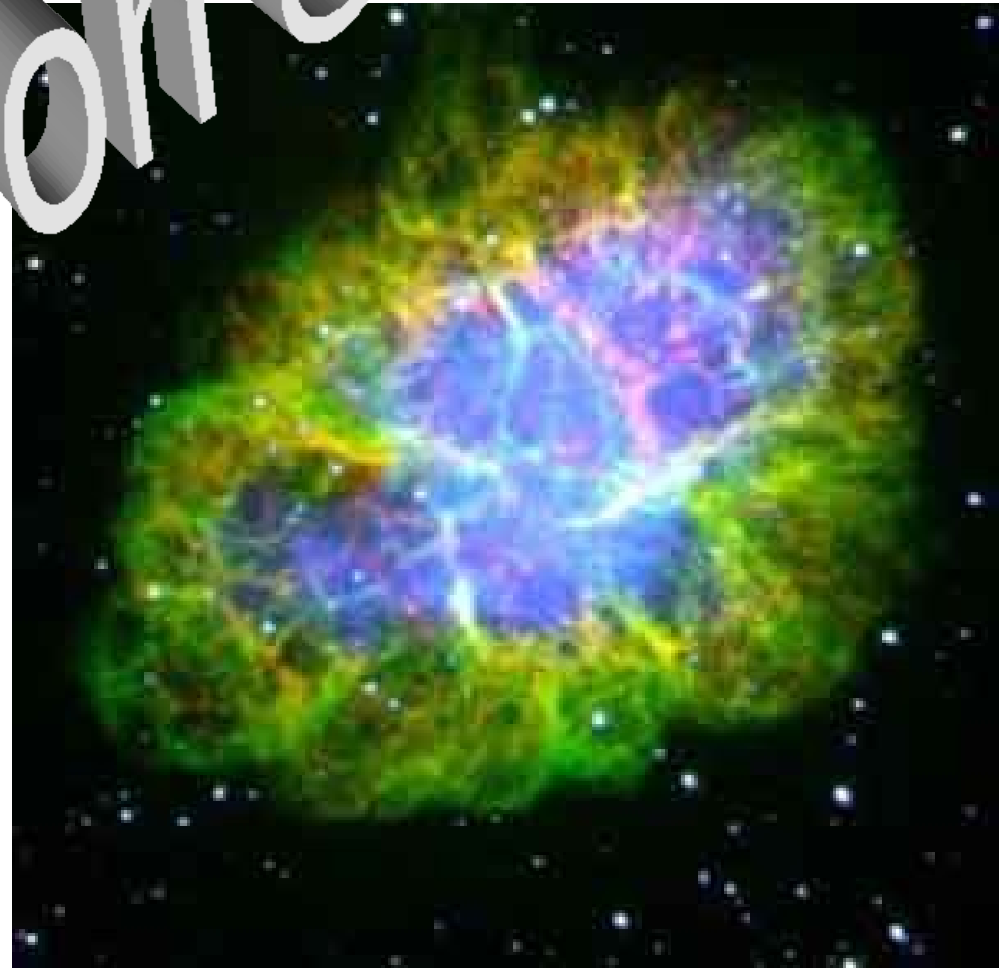


Supernovae are the death throes of massive stars

White dwarfs are the remnant of stars like our Sun

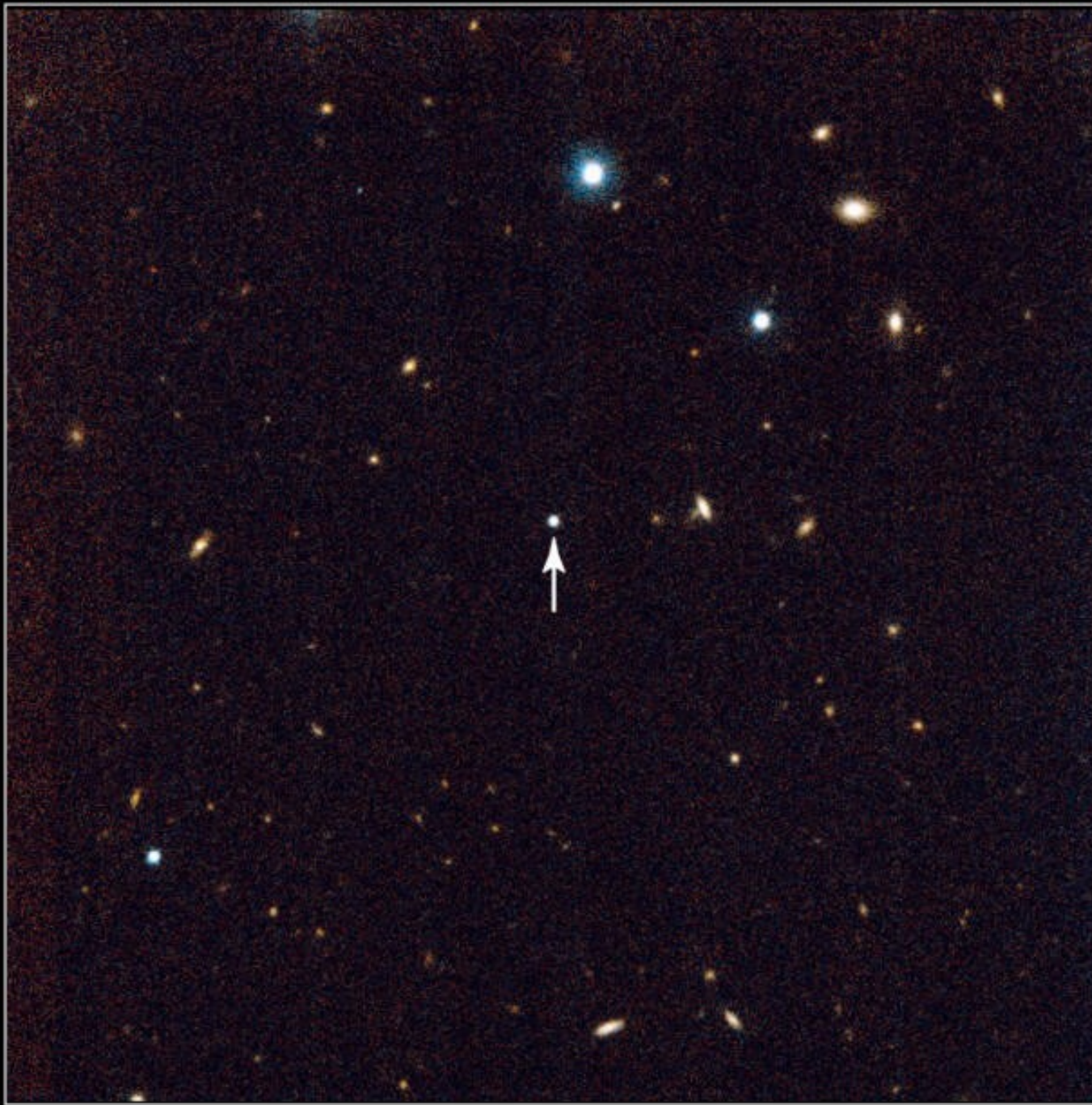
Neutron Stars are the remnants of more massive stars

White Dwarf vs Neutron Star



Quasars





Quasars are
objects from
the young
universe
(we don't
see any
nearby)



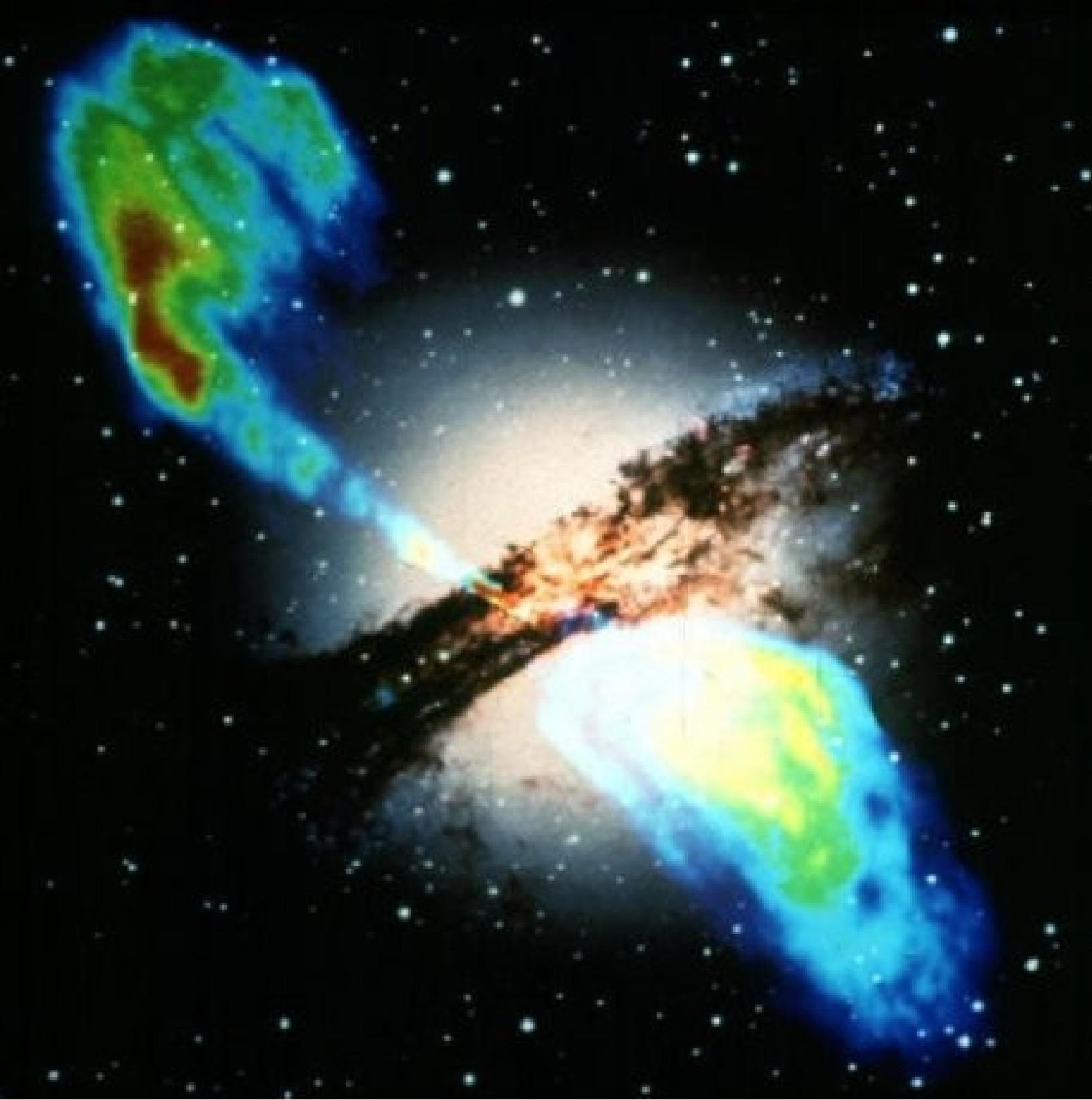
The Most Distant Quasar at $z=5.0$

Subaru Telescope, National Astronomical Observatory of Japan

CISCO (J & K')

January 28, 1999

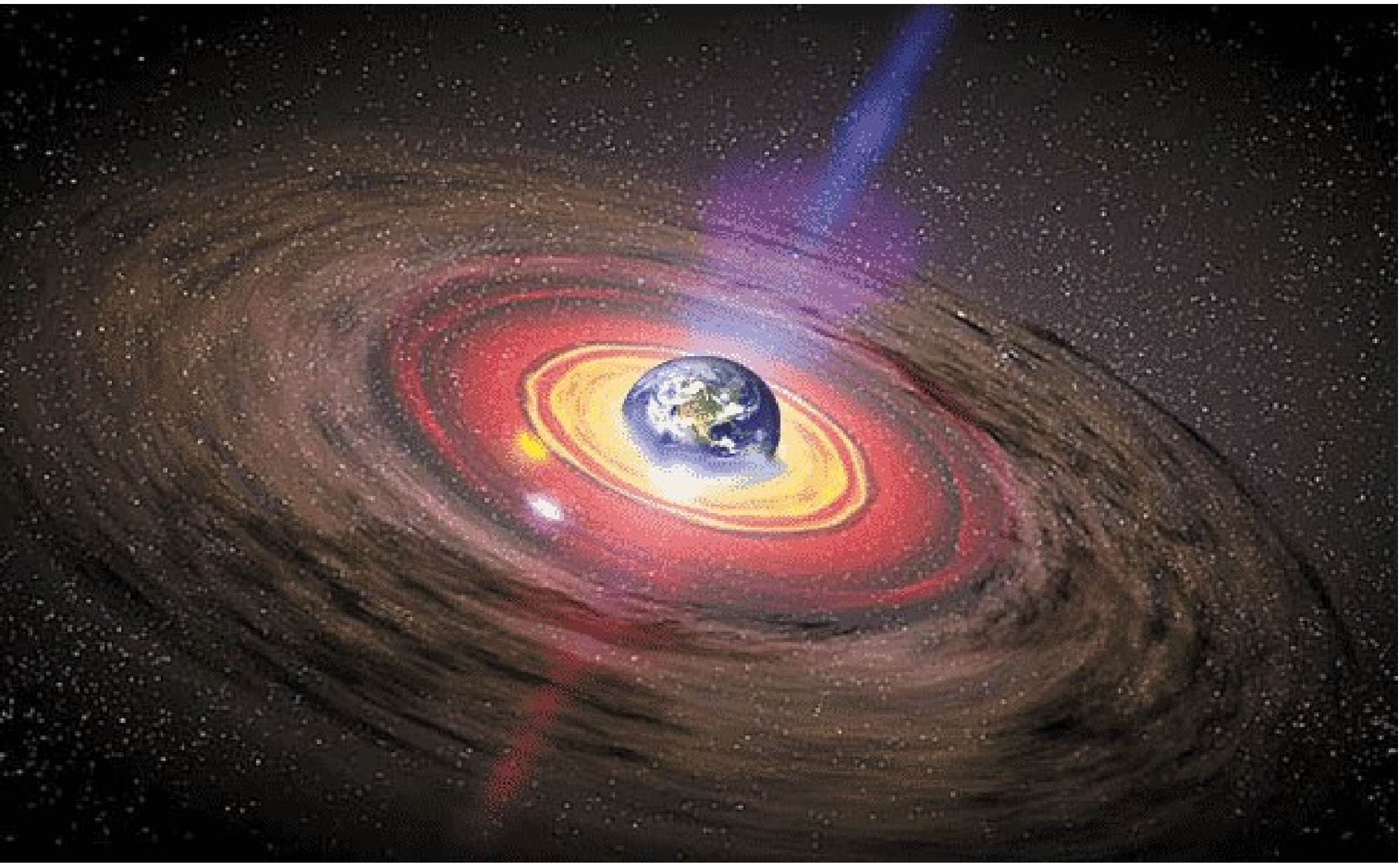


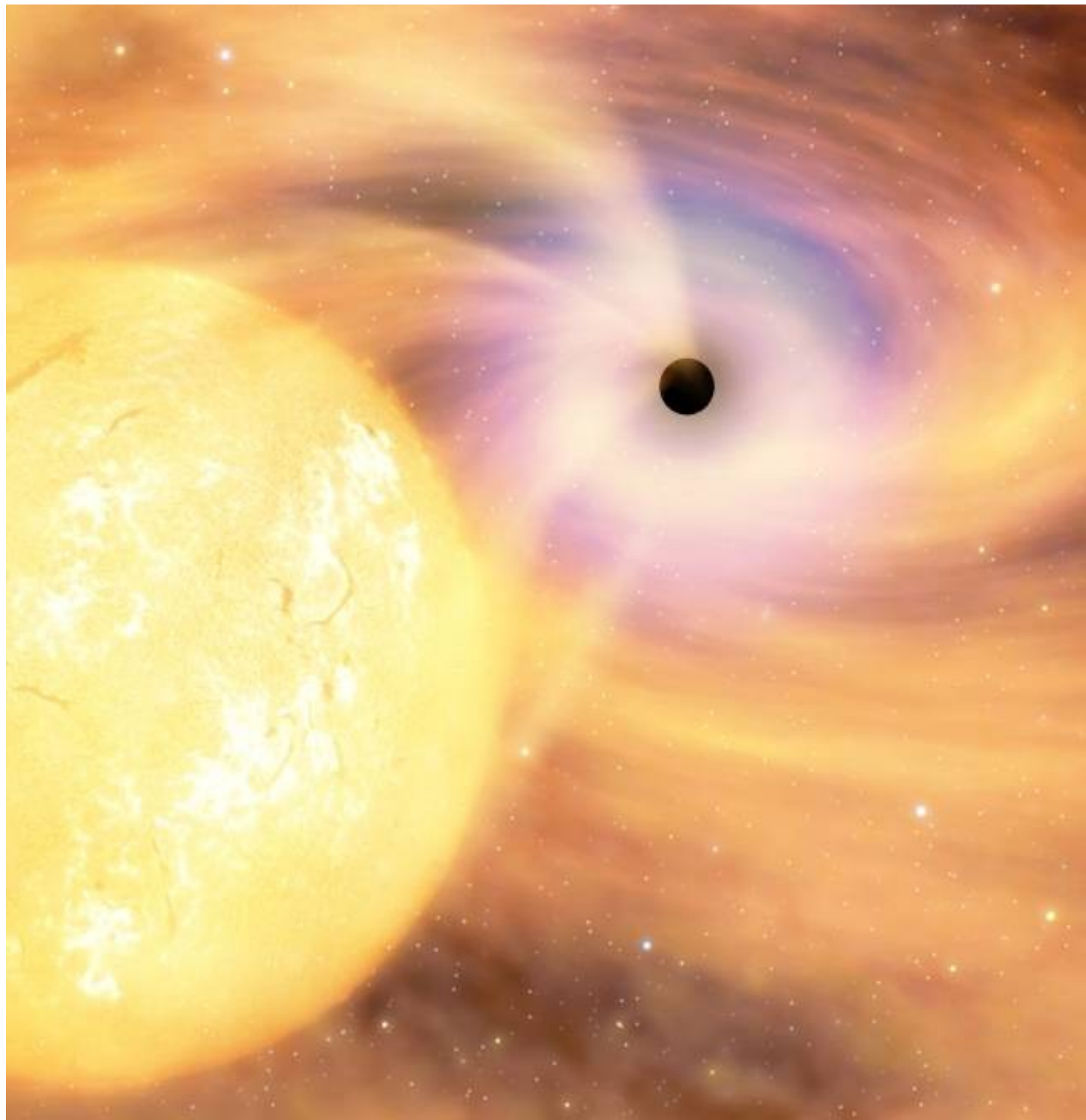


Perhaps
Quasars
are Active
Galactic
Nuclei...
(note the
jets of gas
coming
from the
nucleus of
this
galaxy)

Black Holes

They're not Black, nor are they Holes





Review