

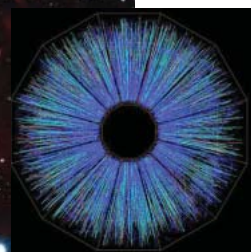
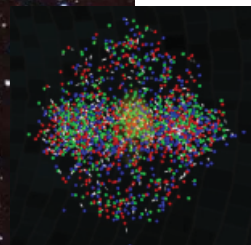
Save the date: A Public Lecture

AN ODYSSEY THROUGH OUR UNIVERSE

FROM THE BIG BANG AND UNKNOWN DARK
FORCES TO UNSEEN DIMENSIONS AND UNIVERSES

Pictured above: The Helix Nebula from the VISTA Telescope

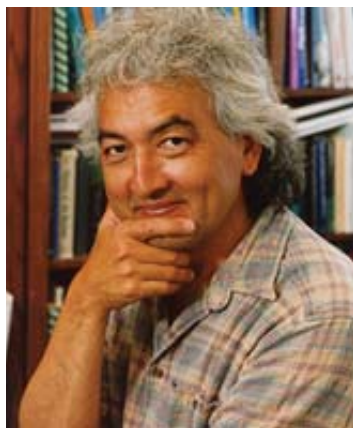
Photo Credit: ESO/VISTA/J. Emerson; Acknowledgment: Cambridge Astronomical Survey



MARCH 28, 2012 - 7PM

Cartwright Hall Auditorium, Kent State University, Kent, OH

Welcome reception at 6:30 PM -- FREE and open to the public



John W. Harris
Professor of Physics
Yale University

Take a pedestrian's guided tour through our Universe! From the Big Bang through Inflation of the Universe, through a hot soup of quarks into the regime of particles, atoms and molecules, then to galaxies, solar systems and planets. Gravity governs falling objects and planetary motion, and creates Black Holes. Quantum Mechanics describes the world of light, particles and atoms. Quantum Mechanics is at odds with Gravity – this is a conflict of cosmic proportions that we must resolve! A new theory, called String Theory, purports to explain all this, but it requires unseen dimensions of space and time. Meanwhile, other conflicts are brewing. There is an abundance of Dark Matter that attracts matter and alters motion in the Universe. Most of the energy in the Universe is Dark Energy, which causes an even faster expansion than we originally thought. We are on the verge of discovering the final piece of the particle physics puzzle called the Higgs Particle or possibly an entirely new set of particles. Where do we expect to go from here? Are there really extra dimensions and unseen universes? Will there be new families of particles? In this lecture I will discuss these issues, some of the most intriguing mysteries and marvels of modern-day physics.

See reverse side for directions
and parking instructions


KENT STATE
UNIVERSITY

Traveling to Cartwright Hall (Auditorium Bldg) at the Kent State University, Kent Campus

If using an online map or GPS system, type in:
200 Terrace Drive, Kent, Ohio,
44242 (for nearest location to Cartwright Hall)

Pictured at right:
Cartwright Hall entrance



From the North

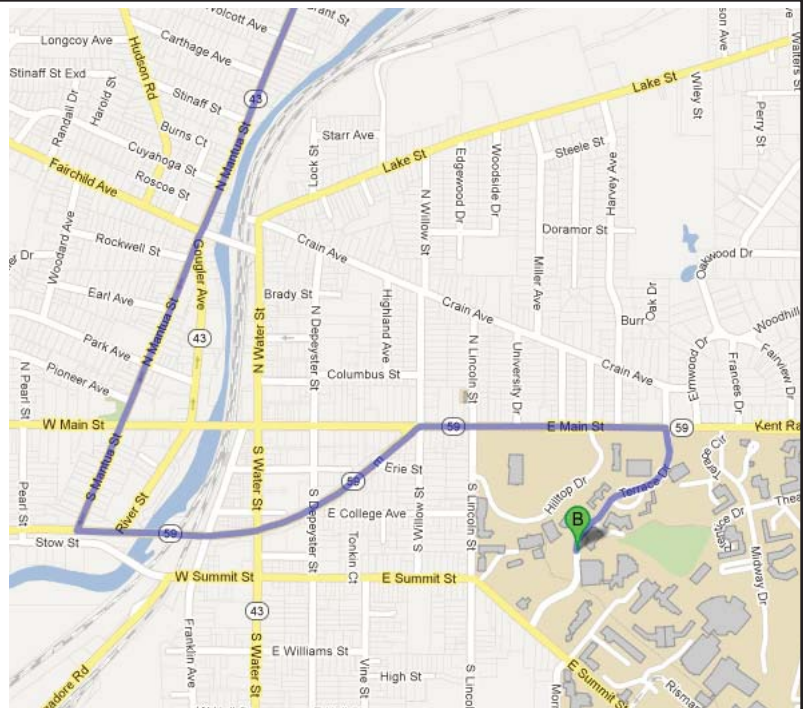
Take I-480 E/OH-14 E

In Streetsboro, turn right onto OH-43 S
Follow OH-43 S (~6 miles)

Turn left onto OH-59 E

Turn right onto Terrace Dr.
After the first traffic light on Terrace Dr.,
continue past the “brain sculpture”.
Parking lot will be at the next intersection,
on the right, and down the hill.
Look for the building pictured above.

Park in the Cartwright Hall Parking lot (R-15). If
that lot is full, park in either the Rockwell Hall
(R-1) parking lot or Business Bldg Parking lot
(R-2).



From the South

Take I-76, exit 33, to OH-43 N

Drive (~3 miles) on OH-43 N, which becomes S.
Water Street in Kent

Turn right onto OH-59 E (Haymaker Pkwy)

Turn right onto Terrace Dr.
After the first traffic light on Terrace Dr.,
continue past the “brain sculpture”.
Parking lot will be at the next intersection,
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