

Astronomy Open Night, Friday, December 4, 2015

ESS 001; 7:30 P.M.

For more information: <http://www.astro.sunysb.edu/openight/opennite.html>

Takamitsu Tanaka

“Supermassive black holes: the most powerful and ancient objects in the Universe”

A supermassive black hole has the mass of millions, and sometimes billions, of Suns. Far from the stuff of science fiction, evidence suggests that there is one in the center of every galaxy—including our own. Counter to their name and reputation, they power some of the brightest phenomena in the Universe, and play major roles in shaping their cosmic environment. In this talk, I will describe what astronomers have learned about supermassive black holes (and the evidence behind this knowledge), as well as open questions that are at the forefront of current research.

Dr. Takamitsu is a Research Assistant Professor in the Dept. of Physics and Astronomy at Stony Brook. He joined the Dept. in 2014 and works on supermassive black holes and accretion processes.

World of Physics Open Night, Friday, December 11, 2015

ESS 001; 7:30 P.M.

For more information: <http://www.physics.sunysb.edu/Physics/WorldsOfPhysics/2015/>

Dmitri Kharzeev

“Chirality: from ancient Egypt to tomorrow's technologies”

Chirality (or "handedness") is a ubiquitous notion in science, from biology to the physics of the Universe. It holds the key to understanding many mysteries of the quantum world, and opens amazing possibilities for tomorrow's technologies.

Dmitri Kharzeev is a professor of physics at Stony Brook University. He is also a senior scientist and the Head of Theory group of RIKEN-BNL Center at Brookhaven National Laboratory. He received his PhD degree from Moscow State University in 1990, and did postdoctoral research at CERN in Geneva, Italian National Institute for Nuclear Physics, and in Bielefeld University, Germany prior to coming to BNL in 1997 as a RIKEN-BNL Fellow. In 2004 he became the Head of BNL Nuclear Theory group, and from 2010 holds a joint appointment at Stony Brook University and BNL. He is a Fellow of APS and AAAS.

Dmitri Kharzeev main research interest at present, is the behavior of chiral particles in nuclear, particle, and condensed matter physics, as well as technological applications of chiral materials.

Directions to SUNY Stony Brook and ESS Building

- ⇒ From exit 62 of the Long Island Expressway (LIE, I-495) follow Nicolls Road (Route 97) north for nine miles. Pass the South and Main entrances to the University.
- ⇒ Enter the North entrance which will be on your left.
- ⇒ At the top of the small hill, turn right on Circle Road.
- ⇒ Proceed about 1 mile.
- ⇒ Turn left onto Campus Drive and then immediately turn left again onto John S. Toll Drive.
- ⇒ Proceed about 50 yards then turn right into the large paved parking lot.
- ⇒ The Earth and Space Sciences building is the large concrete building at the northeast end of the parking lot.

Map of campus is on the web at: <http://www.stonybrook.edu/sb/map/>

TEACHER IN SERVICE CREDITS

If your school requires you to have a sequence of educational opportunities in order to receive in-service credit, please advise them that during the Fall 2014 semester we will provide attendance certification for each of the lectures attended.

Please contact the respective department for more information.