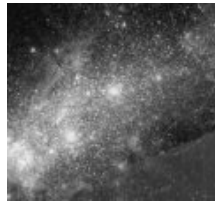
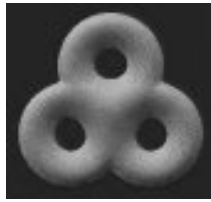


Perimeter Institute for Theoretical Physics presents:
International Summer School for Young Physicists
(ISSYP) 2007

July 27 to August 8 and **August 14 to August 26**



*Are you captivated by black holes, superstrings and dark matter?
Have you ever wondered what the universe is like at the most fundamental level?
Do you have a passion for physics?*

If so, then ISSYP 2007 is for you! This program is a two-week long immersion into the mind-bending world of cutting-edge ideas at Perimeter Institute for Theoretical Physics - Canada's premier institute for foundational theoretical physics - in Waterloo, Ontario.

The program will inspire, educate and challenge you as you learn about numerous advanced topics in modern physics such as quantum computers, Einstein's theories of relativity and quantum gravity. You will also get to:

- Interact with internationally-renowned scientists at PI who are advancing our understanding of the physical world through leading-edge research
- Tour a range of world-class scientific labs
- Meet students your own age from around the world who share a similar passion for physics.

By the program's end, you will have gained a much richer, deeper understanding about the physical universe at the most fundamental level and an appreciation of what mysteries remain unsolved. You will also have begun life-long friendships with students around the world. ISSYP at Perimeter Institute will be a once in a lifetime experience to remember.



What topics will be taught at the school?

ISSYP 2007 will cover many of the core areas of modern physics including:

- Quantum teleporters, quantum computers and Schrödinger's cat
- Black holes, wormholes and other elements of Einstein's theory of general relativity
- Dark matter and other parts of cosmology.

These will be taught via a combination of presentations and tutorials in which all students will be actively involved.

Exactly how will I get the chance to interact with Perimeter Institute scientists?

Another key aspect of ISSYP is its small-group research projects led by expert researchers associated with PI. Your mentor will look after a group of roughly 5 to 10 students and will give you an in-depth look at what physics research is really like by guiding you and your fellow group members through an open-ended problem that will really stretch your mind.

Another important feature of ISSYP is the keynote presentations given by Perimeter Institute experts on their fields of research. These talks will go far beyond anything available in any popular treatment or textbook and will provide you with deep insight as to what lies at the very forefront of our understanding of the physical world.

How much does it cost?

As part of its outreach mandate, Perimeter Institute covers all necessary costs for each student while *within* Canada. This includes return transportation from Toronto Pearson International airport to Waterloo, accommodation for the duration of the program and all meals. International students do not have to take care of any of these costs. However, they do need to **fund their own return airfare from their home country to Toronto and purchase appropriate travel insurance.**

When will ISSYP be held?

Due to popular demand, Perimeter Institute is offering two ISSYP programs this year on the following dates:

- Friday, July 27 to Wednesday, August 8
- Tuesday, August 14 to Sunday, August 26



How will students be looked after during the two weeks of the school?

Throughout ISSYP, attendees will reside in the Ron Eydt Village student residence on the nearby University of Waterloo campus. Whilst there, they will be under the supervision of experienced male and female chaperones. These chaperones will also plan and supervise a range of evening and weekend social activities. Village details at <http://www.housing.uwaterloo.ca/residences/rev/>.

Am I eligible to apply?

Applications are open to international students aged 16 -17 years old. A total of 100 students will attend both schools - 50 from Canada and 50 from around the world.

How can I apply?

Complete the application procedure and send all information to Perimeter Institute by **Tuesday, April 17, 2007**. Use the attached application forms (where applicable) or download an application from www.youngphysicists.ca.

Who can I contact for more information?

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