

IMPORTANT DATES

March 29, 2019	Complete application packages must be received at Perimeter Institute by mail or courier on or before Friday, March 29, 2019. Late applications will not be reviewed.
May 1, 2019	Successful applicants notified
May 24, 2019	Acceptance package deadline
July 14–July 27, 2019	ISSYP in session

HOW TO APPLY

1. Complete the Online Registration Form at www.issyp.ca

All applicants must register online before submitting their full application package by mail or courier.

2. Download, save, and complete the Application Package

A completed application package includes:

- Personal Information Form
- Extracurricular Activities
- Why ISSYP is for Me* Essay
- Teacher Assessment including *Student Ranking Evaluation* and *Teacher Written Assessment*
- Reference Letter
- Copy of Transcript or Report of Marks (secondary school transcripts only)
- Parental Consent and Consent to Use Personal Information Forms

SUBMISSION REQUIREMENTS

Failure to comply with all submission requirements will disqualify your application. Please read carefully:

- The completed application package must be submitted together in the order above. If your teacher or referee prefers to send a reference letter directly to Perimeter they must send it by mail or courier to arrive no later than March 29, 2019. The letter must include your full name as it appears on your application form.
- Application packages sent by email will not be reviewed.
- Your name, email, and country must be included in the top righthand corner of all attached documents (handwritten here is acceptable)
- Do not staple application pages or insert them in any type of folder or plastic cover.
- **Do not include extra documents** such as journal articles, awards, test scores (SAT or TOEFL), or photos with your package. Extra items will be discarded before your application is reviewed.
- To obtain tracking information or confirmation of delivery, send your package by a trackable courier service (Fed-Ex, DHL, UPS). You may also include a self-addressed postcard for return. Due to the volume of applications received, we will not respond to emails or calls requesting confirmation of receipt.
- The completed application package must arrive by mail or courier on or before **March 29, 2019** at:

ISSYP 2019

Perimeter Institute for Theoretical Physics

31 Caroline Street North

Waterloo, Ontario

N2L 2Y5, Canada

Phone: 519-569-7600 x6007

Presenting Partner:



RBC Foundation®

PROGRAM INFORMATION

Dates

ISSYP 2019 will be held from July 14-27, 2019.

Location

ISSYP 2019 will be held at Perimeter Institute for Theoretical Physics, Waterloo, Ontario, Canada.

ISSYP 2019 Program Description

ISSYP is an exciting and challenging two-week program for Canadian and International high school students with a keen interest in theoretical physics who intend to pursue physics at the university level. The program super-charges potential “Einsteins” and “Curies” with:

- Presentations by Perimeter Institute researchers on cutting-edge theoretical physics: hot topics such as superstring theory, quantum computing and dark matter.
- Opportunities to work with international theoretical physicists in small group mentoring sessions.
- Mini-courses on modern physics designed to deepen their insights into Einstein's ideas and the quantum nature of our universe.
- Hands-on labs, tours of neighbouring research facilities such as the Institute for Quantum Computing, and other exciting activities with like-minded students from around the globe.
- Awareness of their own potential as potential future researchers in theoretical physics.

The summer school will be conducted in English; applicants must be fluent at speaking, reading, and writing in English.

Program Costs

The program fee is \$500 (CAD) payable upon acceptance into the program. The fee is a small portion of the full program cost and supports activities, accommodation, and meals. The balance of the cost is covered by Perimeter Institute and partners. Students may wish to bring spending money for souvenirs or additional snacks.

Travel Costs

CANADIAN students will have their roundtrip air, train, or bus fares within Canada, as well as return ground transportation between Toronto airports and Waterloo, covered by Perimeter Institute.

INTERNATIONAL students must fund their own roundtrip airfare from their home country (or home city if residing in Canada) to Toronto's Pearson International Airport and must purchase appropriate travel/health insurance. Return ground transportation between Toronto's airports and Waterloo will be provided by Perimeter Institute.

Financial Aid

Funding is available to help offset program and travel costs for students with financial need. Information regarding this funding will be made available as requested by students accepted into the ISSYP program.

ELIGIBILITY

Students are welcome to apply if they:

- have a passion for and strong ability in physics and mathematics as reflected in high school course grades and extracurricular activities;
- are currently in the final two years of secondary school (for Canadian students, this means Grades 11 or 12 high school or first year CEGEP) and have not yet begun full-time studies at a post-secondary institution;
- intend to pursue physics at the university level in the future;
- have NOT attended ISSYP previously;

The recommended age for this program is 16–18 years. However, students who fall outside of this age range may still apply and will be considered.

COUNTRY OF CITIZENSHIP

For dual citizenship, please list both.

Do you hold landed immigrant or permanent resident status in Canada?

YES

NO

PERSONAL INFORMATION			
First Name:			
Last Name:			
Email:			
Phone:			
Current Grade Level:			
Age:		Date of Birth:	
Gender: <i>for accommodation</i>	<input type="checkbox"/> Male	<input type="checkbox"/> Female	<input type="checkbox"/> Other
			DD/MM/YYYY
CURRENT RESIDENCE			
Street Address			
City:			
Postal/Zip Code:		Province/State:	
Country:			
<p>MY ABILITY TO SPEAK ENGLISH IS <input type="checkbox"/> STRONG <input type="checkbox"/> MODERATE <input type="checkbox"/> WEAK</p> <p>MY ABILITY TO READ/WRITE ENGLISH IS <input type="checkbox"/> STRONG <input type="checkbox"/> MODERATE <input type="checkbox"/> WEAK</p>			
<p>I HAVE APPLIED TO THE ISSYP PROGRAM PREVIOUSLY: <input type="checkbox"/> YES <input type="checkbox"/> NO</p>			

Please list any extracurricular activities, related work experience and hobbies in which you are involved (for example, clubs, athletics, music, student government, volunteer activities, etc.). Please limit your list to activities that have occurred in the last two (2) years. Attach a separate sheet, if necessary, to a maximum of two (2) pages total.

Please write a short essay (of 500 words or less) discussing the following:

- Your interest and general knowledge level in theoretical physics and mathematics;
- Relevant courses you have taken in high school, popular science books or articles you have read, extra-curricular activities such as physics or mathematics clubs, science fairs and any other self-directed learning you have undertaken to further your understanding of physics;
- Other interests and activities you pursue, outside of physics, that demonstrate breadth of character;
- What you hope to learn or gain from attending the ISSYP and your plans for the future, including plans for post-secondary education (e.g. where do you see yourself in 5 years? 10 years?)

ISSYP is an exciting and challenging two-week program for Canadian and international high school students with a keen interest in theoretical physics and who intend to pursue physics at the university level. The program takes place from July 14-27, 2019 at Perimeter Institute for Theoretical Physics in Waterloo, Ontario, Canada. For more information about Perimeter Institute or the ISSYP 2019 program, please visit www.issyp.ca.

SUBMISSION REQUIREMENTS

- This form is to be completed by a teacher or other school official (such as a principal or guidance counselor) who is familiar with the applicant and his or her work and will act as a referee.
- **The Teacher Assessment includes this page, a Student Ranking Assessment and a Teacher Written Assessment.**
- Please be sure to print the name of the student being assessed and to sign and date this report in the spaces provided.
- All information provided by you or the school will be used for the purpose of selecting students for the ISSYP 2019 program.
- Teacher assessments are not required to be in sealed envelopes (although this is accepted, too).
- The student will submit this assessment, together with their application package, by mail or courier so that it is received by March 29, 2019 at the address below. The application period opened December 1, 2018.

ISSYP 2019

Perimeter Institute for Theoretical Physics
31 Caroline Street North
Waterloo, Ontario
N2L 2Y5, Canada
519-569-7600 x6007

STUDENT INFORMATION	
First Name:	Last Name:
SCHOOL INFORMATION	
School Name:	
City:	Province/State:
Country:	School Phone:
School Enrolment (# of students) for the current year:	
TEACHER INFORMATION (TO BE COMPLETED BY THE TEACHER COMPLETING THE TWO-PART ASSESSMENT)	
First Name:	Last Name:
Position:	
Email:	
Would you like to receive email notification regarding programs such as ISSYP as well as high school resources at Perimeter Institute? (Your response to this question will not affect the student's application in any way.) <input type="checkbox"/> YES <input type="checkbox"/> NO	
PRIVACY POLICY: At Perimeter Institute the protection of your personal information is a top priority. Perimeter Institute's Policy regarding the collection, use and disclosure, if any, of personal information can be found at http://www.perimeterinstitute.ca/privacy .	

PART ONE: STUDENT RANKING ASSESSMENT

For each of the following questions, please rank the students against all other students you have encountered in your career, and check the appropriate box.

1. How would you rate the applicant's ability to think creatively and independently?

Top 25% Top 10% Top 1%

2. How would you rate the applicant's industriousness and ability to motivate himself or herself?

Top 25% Top 10% Top 1%

3. How would you rate the applicant's level of curiosity and interest in the areas of physics and mathematics?

Top 25% Top 10% Top 1%

4. How would you rate the applicant's academic ability in the areas of physics and mathematics?

Top 25% Top 10% Top 1%

5. How would you rate the applicant's academic ability in non-scientific subjects, such as history or music?

Top 25% Top 10% Top 1%

6. How well do you know the applicant?

In passing Well – 1 year in class Very well

7. Is the applicant pursuing physics in university?

Yes No I do not know.

PART TWO: TEACHER WRITTEN ASSESSMENT

Please attach a separate letter of written assessment, on official school letterhead, commenting on the following:

- Is there anything special or outstanding about the applicant that we should know?
- Does she or he especially impress you as being extraordinary?
- How strong is his or her interest in and motivation for physics and mathematics?
- Do you feel this person will positively contribute to our world through a life in science?

Signature of School Official

Date

REFERENCE LETTER

An additional reference letter is required as part of the application. Please include a reference letter separate from your teacher's written assessment. This reference can be from another teacher, mentor, coach, employer, science club administrator etc. The referee should have known you for at least 1 year and should not be related to you.

The letter should include, but not be limited to, the following;

- How do you know the applicant?
- How long have you known the applicant?
- Is there anything special or outstanding about the applicant that we should know?
- Does she or he especially impress you as being extraordinary?
- How strong is his or her interest in and motivation for physics and mathematics?
- Do you believe this applicant would enjoy the ISSYP experience (academic and social)?

TRANSCRIPT OF MARKS

Please provide a copy of your secondary school transcript. This should show your marks from Grade 9 to your current level. Original copies are not required at this stage, but successful applicants may be required to submit an original transcript before the program begins.

WAIVER OF LIABILITY

In signing this form, the applicant and parent/guardian agree to release Perimeter Institute from any claim or action of any kind whatsoever for damages, loss, injury or death which may occur as a result of participation in ISSYP 2019, staying in residence at the local university and/or participating in any of the on-site or off-site activities.

CONDITIONS OF PARTICIPATION

The International Summer School for Young Physicists requires a full two-week commitment including all evenings and weekends. The organizers and your fellow students will be relying on your full attention, participation and cooperation. By submitting this application you are granting Perimeter Institute permission to publish any of your work (e.g. excerpts from the program evaluation survey) and any photographs or video taken during the summer school. "Publish" refers to Perimeter Institute's website and/or other promotional materials for non-commercial purposes. You are also agreeing to refrain from conduct injurious to the morale or safety of others and you are acknowledging that consumption of alcohol, cannabis, or illegal drugs is strictly prohibited. Finally, you are agreeing that you will participate fully in the program and attempt all the work (e.g. problems and homework) that forms part of the program to the best of your ability for the duration of the program. Any failure on the part of the student to adhere to the above may result in expulsion of the student from the program at the full expense of the parent/guardian.

Signature of Applicant

Date

Signature of Parent/Guardian

Date

PARENTAL ENDORSEMENT

I have read the application, which is made with my approval. To the best of my knowledge, the information in this application is true and complete. I have had the opportunity to review the Applicant Disclaimer (www.perimeterinstitute.ca/node/102810).

Name of Parent/Guardian:

Email:

Daytime Phone:

Evening Phone:

Signature of Parent/Guardian

Date

MEDIA RELEASE

If accepted, I consent to have Perimeter Institute release my child's name, city, and country to regional and international media to help further promote this program.

YES NO

Granting or refusing this permission will not influence whether or not your child is accepted into the program and you may change your response at any time by emailing the Educational Outreach Coordinator at issyp@perimeterinstitute.ca.

Signature of Parent/Guardian

Date

At Perimeter Institute, we are committed to maintaining the accuracy, confidentiality, and security of your personal information. This document describes the personal information that Perimeter Institute collects from or about you, how we use it, and to whom we disclose that information. The information is amended from Perimeter Institute's Privacy Policy which can be found at www.perimeterinstitute.ca/privacy.

PRIVACY POLICY EFFECTIVE FOR CANADA

It is Perimeter Institute's policy to comply with the privacy legislation within each jurisdiction in which we operate. Sometimes the privacy legislation and/or an individual's right to privacy are different from one jurisdiction to another. This Privacy Policy covers only those activities that are subject to the provisions of Canada's federal and provincial privacy laws, as applicable.

This Privacy Policy has a limited scope and application. Consequently, the rights and obligations contained in this Privacy Policy may not be available to all individuals or in all jurisdictions. If you are unsure if or how this Privacy Policy applies to you, please contact our Privacy Officer for more information via issyp@perimeterinstitute.ca.

WHAT IS PERSONAL INFORMATION?

For the purposes of this document, personal information is any information about an identifiable individual, other than an individual's business contact information when collected, used, or disclosed for the purposes of enabling the individual to be contacted in relation to their business responsibilities.

WHAT PERSONAL INFORMATION DO WE COLLECT?

We collect and maintain different types of personal information in respect of the individuals with whom we interact. This includes:

- contact and identification information such as your name, address, telephone number, and email address;
- personal information concerning the education, products, and other services that you seek from us or that we may provide to you; and
- business relationship information, including information related to your agreements, preferences, feedback, and information requested by or provided to you.

As a general rule, Perimeter Institute collects personal information directly from you. In most circumstances where the personal information that we collect about you is held by a third party, we will obtain your permission before we seek out this information from such sources (such permission may be given directly by you or implied from your actions).

From time to time, we may use third-party services and may also receive personal information collected by those third parties in the course of the performance of their services for us or otherwise. Where this is the case, we will take reasonable steps to ensure that such third parties have represented to us that they have the right to disclose your personal information to us.

Where permitted or required by applicable law or regulatory requirements, we may collect information about you without your knowledge or consent.

HOW DO WE USE AND DISCLOSE YOUR PERSONAL INFORMATION?

We may use and disclose your personal information:

- as permitted or required by applicable laws or regulatory requirements;
- for any additional purposes for which we have obtained your consent to the use or disclosure of your personal information.

We may also use or disclose your personal information without your knowledge or consent where we are permitted or required by applicable law or regulatory requirements to do so.

WHEN DO WE DISCLOSE YOUR PERSONAL INFORMATION?

We may share your personal information with our employees, contractors, consultants, affiliates, and other parties who require such information to assist us with managing our relationship with you, including: (i) third parties that provide services to us; (ii) third parties that assist Perimeter Institute in the provision of services to you; and (iii) third parties whose services we use to conduct our business.

Additionally, your personal information may be disclosed:

- as permitted or required by applicable law or regulatory requirements;
- to comply with valid legal processes such as search warrants, subpoenas or court orders;
- as part of Perimeter Institute’s regular reporting activities to its affiliates;
- to protect the rights and property of Perimeter Institute;
- during emergency situations or where necessary to protect the safety of a person or group of persons; and
- with your consent.

CHOICE/OPT-OUT

You may change or withdraw your consent at any time, subject to legal or contractual obligations and reasonable notice. In certain circumstances, the withdrawal of your consent may render us unable to continue to provide services where the collection, use, or disclosure of your personal information is necessary to provide the service. To withdraw consent, please email issyp@perimeterinstitute.ca.

HOW IS YOUR PERSONAL INFORMATION PROTECTED?

Perimeter Institute endeavours to maintain physical, technical, and procedural safeguards that are appropriate to the sensitivity of the personal information in question. These safeguards are designed to prevent your personal information from loss and unauthorized access, collection, use, disclosure, copying, modification, disposal, or destruction. Unfortunately, we cannot guarantee complete security: for example, (i) unauthorized access, use, or disclosure, (ii) hardware or software failure, and (iii) other events may compromise the security of your personal information at any time.

DATA DISPOSAL

Once any collected data is no longer in use, it will be disposed of according to industry best practices.

I acknowledge that I have read and agree with the information provided in this document regarding personal use of my information and the information in the application submission.

Signature of Applicant

Date

Signature of Parent/Guardian

Date