

IMPORTANT DATES

Application deadline	March 29, 2018
Successful applicants notified	May 1, 2018
Acceptance packages deadline	May 25, 2018
ISSYP in session	July 15 – July 28, 2018

HOW TO APPLY

1. Complete the “Online Registration” at www.issyp.ca

All applicants must register online before submitting their full application package.

2. Complete the “Application Package”

A completed application package will consist of the following:

- Personal Information Form
- Extracurricular Activities
- Essay “Why ISSYP is for Me”
- Teacher Assessment
 - Student Ranking Evaluation
 - Written Assessment
- Reference Letter
- Official Transcript or Report of Marks / Official Exams (Secondary School transcripts only)
- Proof of Citizenship (copy only of **EITHER** Birth Certificate or Passport)
- Parental Consent Form

SUBMISSION GUIDELINES

Failure to comply with all submission guidelines will result in the application being disqualified. Please read carefully:

- The completed application package must be SUBMITTED TOGETHER in the order above. If one of your referees prefers to send a reference letter directly to Perimeter they may do so, but they must clearly indicate your full name as it appears on your application form.
- Application packages received otherwise will not be considered.
- Your name, email and country must be included in the TOP RIGHT HAND CORNER of all attached documents (Handwritten here is acceptable)
- **Do not bind or staple application pages.**
- Do not include any extra paper, awards, covers or photos with your package.
- To obtain tracking information and confirmation of delivery, send your package by 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.
- **Complete application packages must arrive no later than March 29, 2018 at:**

ISSYP 2018

Perimeter Institute for Theoretical Physics

31 Caroline Street North

Waterloo, Ontario

N2L 2Y5, Canada

Phone: 519-569-7600

PROGRAM INFORMATION

Dates

ISSYP 2018 will be held from July 15-28, 2018.

Location

ISSYP 2018 will be held at Perimeter Institute for Theoretical Physics, Waterloo, Ontario, Canada.

ISSYP 2018

The 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 studies at the university level. The program supercharges 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 leading 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.

Note: The summer school will be conducted in English. Applicants must be fluent at speaking and writing in English.

Program Costs

The program fee is \$500 (CAD) payable upon acceptance into the program. Students may wish to bring spending money for souvenirs or additional snacks.

Travel Costs

CANADIAN students accepted will have their round trip air, train or bus fares within Canada paid for by Perimeter Institute. Ground transportation to and from the airport to Waterloo will also be provided by Perimeter Institute.

INTERNATIONAL students must fund their own round trip airfare from their home country to Toronto Pearson International Airport and purchase appropriate travel/health insurance. Ground transportation to and from the airport to Waterloo will be provided by Perimeter Institute.

NOTE: There is funding 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 studies in 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.

CANADIAN APPLICANT

INTERNATIONAL APPLICANT

Citizenship: _____

PERSONAL INFORMATION

First Name:			
Last Name:			
Street Address			
City:			
Postal/Zip Code:		Province/State:	
Country:			
Email:			
Phone:			
Cell or Mobile:			
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

MY ABILITY TO SPEAK ENGLISH IS STRONG MODERATE WEAK

MY ABILITY TO READ ENGLISH IS STRONG MODERATE WEAK

I HAVE PREVIOUSLY APPLIED TO THE ISSYP PROGRAM YES NO

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 list to activities that have occurred in the last two (2) years. Attach a separate sheet, if necessary.

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?)

The 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 studies at the university level. The program takes place from July 15-28, 2018 at Perimeter Institute for Theoretical Physics in Waterloo, Ontario, Canada. For more information about Perimeter Institute or the ISSYP 2018 program, please visit www.issyp.ca.

SUBMISSION GUIDELINES

- 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 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.
- 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, so that it is received by March 29, 2018 to:

ISSYP 2018

Perimeter Institute for Theoretical Physics
31 Caroline Street North
Waterloo, Ontario
N2L 2Y5, Canada

STUDENT INFORMATION	
First Name:	Last Name:
TEACHER INFORMATION	
First Name:	Last Name:
Position:	
Email:	Province/State:
SCHOOL INFORMATION	
School Name:	
Street Address:	
City:	Province/State:
Postal/Zip Code:	Country:
School Phone:	School Fax:
School Enrolment (# of students) for 2018/2019:	
Principal Name:	Email:
Head of Science:	Email:

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.

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 one year.

The letter should speak to, 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)?

OFFICIAL TRANSCRIPT OF MARKS

Please provide an Official Transcript of Marks/Report of Marks for Secondary School only.

PROOF OF CITIZENSHIP

Please provide a **PHOTOCOPY** of either a Birth Certificate or Passport.

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 2018, 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 form) 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 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 camp to the best of your ability for the duration of the camp. **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.

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. 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.

Signature of Parent/Guardian

Date