Welcome to the 2020 PPPL Graduate Summer School

Presenters: Jason TenBarge, Walter Guttenfelder, Ammar Hakim, Arthur Dogariu, Igor Kaganovich, Jose Lopez, Yevgeny Raitses

Hosted by: Arturo Dominguez and the Science Education Department
Target audience of the PPPL GSS

- While there are several plasma “summer schools” they are usually focused on advanced topics in plasma physics (e.g. Sherwood conference, Michigan HEDP, etc.).
- The PPPL Summer School is intended for a broad plasma physics and fusion sciences audience.
- Target audience is students who are early in their graduate careers and may use the content to guide their research.
The GSS features 3 mini-courses (4 lectures each)

**Turbulence**
- Dr. Jason TenBarge
- Dr. Walter Guttenfelder

**Computational Plasma**
- Dr. Ammar Hakim

**Low Temperature Plasmas**
- Dr. Arthur Dogariu
- Dr. Yevgeny Raitses
- Dr. Igor Kaganovich
- Prof. Jose Lopez
Streaming and archiving

• All talks will be streamed on the GSS website, open to everyone: https://gss.pppl.gov/

• They will become available later to view on the site.

• This follows the model of the PPPL intro to fusion/plasma intro course: https://suli.pppl.gov/
2020 is an unprecedented year

- While we’ve streamed all lectures since the first year of the summer school (2018), this year it is fully remote.
- While there’s no substitute to the in-person experience, the remote format expands the reach of the course.
- We received >270 applications from all over the world.
- 38 students from 31 US graduate institutions + 2 international ones are enrolled.
- The ”small” size is meant to enable personalized attention.
Beyond the mini-courses

- Participants will have a networking session with PPPL graduate students Monday at 4pmET.
- Some students will give oral presentations on their research during the week.
- On Wednesday, participants will attend the PPPL HS and undergraduate poster session.
- Participants will present on their research / group’s research Thursday morning.
Continue the conversation online

• With the 2020 Intro course, we created a server in the communication platform Discord: “Fusion/Plasma Undegrads Grads”.
• With over 450 members, the server was widely used during the intro course and during the summer.
• A ”Graduate Summer School” category was created for GSS-specific conversations.
• We welcome the speakers, enrollees and anyone watching to join the conversation!
• Join here: [https://discord.gg/cuBGTc7](https://discord.gg/cuBGTc7)
These are not normal times and we should acknowledge this

• The reason the course is remote is because we are living during a pandemic.

• All talks are recorded and will be posted, so practice self-care. Take rests, sit out when you’re exhausted, stretch, stay hydrated, etc.

• YOUR HEALTH AND WELL BEING ARE THE PRIORITY!
Code of conduct

• Since this is a public forum we ask speakers and participants to:

• Make participation in our community a harassment-free experience for everyone

• Act in ways that contribute to an open, welcoming, diverse, inclusive, and healthy community

• We align with the [Contributor Covenant Code of Conduct](#)
Code of conduct: Unacceptable Behaviors

• The use of sexualized language or imagery, and sexual attention or advances of any kind

• Trolling, insulting or derogatory comments, and personal attacks

• Public or private harassment

• Other conduct which could reasonably be considered inappropriate in a professional setting
Code of conduct: Positive Behaviors

• Demonstrating empathy and kindness

• Being respectful of differing opinions and experiences

• Giving and gracefully accepting constructive feedback

• Accepting responsibility and apologizing to those affected by our mistakes, and learning from the experience
Code of conduct: Positive Behaviors

- Respect the pronouns of others
- Recognize that intent is not equal to impact
- **Self-Care is revolutionary!**
Make the most of the GSS

- Ultimately, the PPPL GSS is a chance for graduate students from all across the country (and the world) in different fields of plasma physics to come together and meet the scientists and students in the field.
- Take this opportunity to practice your presentation skills in a friendly setting.
- Explore fields of plasma physics you’re unfamiliar with.
- Ask lots of questions!