

## **Monday Feb 3, 2020**

### ***Observations, detection and properties of vortex flows in solar plasmas***

- 09:30-09:40: Welcome from ISSI
- 09:40-10:00: Overview of the meeting (Kostas Tziotziou)
- 10:00-10:30: Overview on recent results concerning solar vortex studies over the past year and report on DKIST (Eamon Scullion)
- 10:30-11:00: [Coffee break](#)
- 11:00-11:30: Detection methods of vortex flows (Georgia Tsiropoula)
- 11:30-12:00: New vortex observations (Kostas Tziotziou)
- 12:00-12:30: [Work progress and discussion on new results](#)
- 12:30-14:00: [Lunch break](#)
- 14:00-15:30: [Discussion on relevant draft and new material for the review paper](#)
- 15:30-16:00: [Coffee break](#)
- 16:30-17:30: [Future work and tasks](#)

## **Tuesday Feb 4, 2020**

### ***MHD simulations of vortex flows in solar plasmas***

- 09:00-09:30: Dynamics and structure of self-formed helical structure in the solar corona (Irina Kitiashvili)
- 09:30-10:00: Past work and views on definition and classes of vortex flows (Sven Wedemeyer)
- 10:00-10:30: Vortex flows at various scales in simulations (Yadav Nitin)
- 10:30-11:00: [Coffee break](#)
- 11:00-11:30: Photospheric vortex tubes structures - LAVD approach (Viktor Fedun)
- 11:30-12:30: [Work progress and discussion on new results](#)
- 12:30-14:00: [Lunch break](#)
- 14:00-15:30: [Discussion on relevant draft and new material for the review paper](#)
- 15:30-16:00: [Coffee break](#)
- 16:30-17:30: [Future work and tasks](#)

## **Wednesday Feb 5, 2020**

### ***Fundamental physics of associated waves in vortex flows***

- 09:30-10:00: Partial ionization effects on vorticity and waves (Elena Khomenko)
- 10:00-10:30: Oscillations and waves (Kostas Tziotziou)
- 10:30-11:00: [Coffee break](#)
- 11:00-11:30: Vortex evolution in the solar atmosphere: a dynamical equation for the swirling strength (José Roberto Canivete Cuissa)
- 11:30-12:00: On the generation and evolution of swirls in the solar atmosphere (Oskar Steiner)
- 12:00-12:30: [Work progress and discussion on new results](#)
- 12:30-14:00: [Lunch break](#)
- 14:00-15:30: [Discussion on relevant draft and new material for the review paper](#)
- 15:30-16:00: [Coffee break](#)
- 16:30-17:30: [Future work and tasks](#)

## **Thursday Feb 6, 2020**

### ***Coupling of vortex flows between different solar atmospheric layers***

- 09:00-09:30: Contribution to the review paper (Alexander Kosovitchev – via Skype)
- 09:30-10:30: Discussion on relevant part of the review paper
- 10:30-11:00: Coffee break
- 11:00-11:30: Multiwavelength studies of small-scale vortices: where we stand and future outlook (Ioannis Kontogiannis)
- 11:30-12:30: Work progress and discussion on new results
- 12:30-14:00: Lunch break
- 14:00-15:30: Discussion on relevant draft and new material for the review paper
- 15:30-16:00: Coffee break
- 16:30-17:30: Future work and tasks

## **Friday Feb 7, 2020**

### ***Summary of meeting and future assignments***

- 09:30-10:30: Compilation of discussions/results during previous days and discussion of appropriate future steps/actions and collaborative work
- 10:30-11:00: Coffee break
- 10:30-13:00: Continuation of morning session and discussion about the review paper and other collaborative publications – Meeting wrap-up
- 13:00: Meeting ends
- 13:00-16:00: Team lunch & museum visit