

ISSI Workshop on
Magnetic Switchbacks in the Young Solar Wind
In Bern, Switzerland 18-22 September 2023

June 8, 2023

Dear Colleague

We would like to invite you to participate and play an active role in a workshop on *Magnetic Switchbacks in the Young Solar Wind*, which is organized and sponsored by the International Space Science Institute (ISSI) in Bern Switzerland. This workshop is to be held on September 18-22, 2023 (for information about ISSI please refer to our homepage at www.issibern.ch).

The conveners of the workshop are:

- Marco Velli (UCLA, Los Angeles)
- Maria S. Madjarska (MPI, Göttingen, and SRTI, BAS, Sofia)
- Stuart D. Bale (University of California, Berkeley)
- Olga Panasenco (Advanced Heliophysics, Los Angeles)
- Etienne Pariat (LPP/CNRS, Paris)
- Anna Tenerani (University of Texas, Austin)
- Tim Horbury (Imperial College, London)
- Thierry Dudok de Wit (ISSI, Bern, and University of Orléans).

The workshop aims at providing a more comprehensive understanding of the nature and origin of magnetic switchbacks as observed in the inner heliosphere, and their role in structuring the solar corona. Our main objective is to make progress by bringing together two communities of physicists: those with expertise in the solar atmosphere and those studying the solar wind in situ, both from an experimental/observational and theoretical/numerical perspective.

The program will consist of a few review talks, many short contributions and several moderator-led discussions that will respectively address: properties of switchbacks, their origin, their interaction with the solar corona, and their evolution throughout the heliosphere.

Participation at this workshop is by personal invitation only. The conveners have endeavoured to create a list of participants who are currently very active in this field and who will cover the relevant topics. As this is a workshop and not a conference, we invite all participants to attend the meeting in person so that they can fully engage in open but lively discussions on the elusive origin of switchbacks.

An important aim of the workshop is the production of a high-level book published in the Space Sciences Series of ISSI by Springer Verlag (see www.issibern.ch/publications). This volume is NOT intended to be the proceedings of the workshop, but a collection of in-depth papers informed by the contributions and discussions at the workshop. It should provide a coherent picture of the current state of the subject. All papers will be peer reviewed. The papers will be published both in the hardcover book in this series and also individually in Space Science Reviews as they are received. We expect the papers to be submitted within 3 months of the workshop so they can reflect the discussions

during it and be made available to the community in a timely manner. The journal issue and the SSSI volume are expected to appear about 12 months after the workshop. Electronic versions will be online as soon as accepted.

The production of the book is an important task, in which we ask all participants to engage actively and provide their contribution on time. Attendance to the workshop will not exceed 50, including a dozen early career scientists in addition to established experts in the field.

ISSI will cover your subsistence costs (hotel and meals) while in Bern. However, we are not in position to cover your travel costs. **If you can accept this invitation we kindly ask you to reply to it (ddwit@issibern.ch) by July 18.**

We hope very much that you will be able to attend this workshop and contribute to the volume and the discussions as described above. ISSI will deal with all matters such as hotel reservations, reimbursements, etc. We will contact you again with a second circular giving more detailed information about the workshop and the accommodations in Bern.

We are looking forward to welcoming you to ISSI and to a lively workshop!

With best regards

Yours sincerely



Thierry Dudok de Wit
On behalf of the team of conveners
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