

2nd China-Europe Solar Physics Meeting (CESPM 2019)

by Mohammed Talafha (m.talafha@astro.elte.hu)

December 2019

Doctoral School of Physics - ELTE
Spring Travel grant 2019 – ELTE Talent Support

Over the last three decades, solar physicists in both Europe and China have worked together on a large variety of topics in various ways, yielding fruitful achievements and success. In order to broaden the collaborations and to exchange scientific results between Chinese and European solar physicists, the series China-Europe solar physics meetings was introduced so being held every 2 or 3 years alternating in China and Europe.

The conference was organized by Hvar Observatory at Hotel Amfora - Hvar Grand Beach Resort, City of Hvar, Hvar, Croatia which took place from Monday, May 6 to Friday, May 10, 2019.

During the days of the conference there were 13 sessions and 3 poster sessions, each one had several talks presented, In the beginning of the conference, the first three sessions talked about Ground- and space-based solar instruments in Europe and China, Prediction of Solar Cycle 25, How 'rogue' active region emergences affect the variation of the Solar Cycle?, several other talks about the Solar Cycles, several Ph.D. students presented their work as short presentations and finally poster session for these topics was held in the afternoon.

Sessions 4-6 were dedicated for chromosphere researchers, Hot and cool structures in active region cores running in parallel, Mixed properties of MHD waves in non-uniform plasmas, Numerical experiments of various types of disturbance to the low and middle corona caused by the solar eruption etc ... and a poster session by the end of it.

On the 8th of May, sessions 7-10 were dedicated for Coronal events researches, several talks were presented about the structure of the corona, the magnetism and Flux rope formation by a confined solar flare preceding a coronal mass ejection and several others, then an excursion to the Spaniola castle was done.

In the day after, sessions 10-12 were about the Solar events that affect the Earth atmosphere such as The Eruption of a Small-scale Emerging Flux Rope as the Driver of an M-class Flare and of a Coronal Mass Ejection, Quantifying the Toroidal Flux of a Pre-existing Flux Rope in Coronal Mass Ejections, Space Weather chains connecting the Sun to Earth.

In the last day of the meeting, challenges and future work were marked and awards for the best poster and best talk were distributed, were I was given the Outstanding Poster award certificate for the Solar Dynamo branch (See Photos)

By participating in this conference, I gained the appropriate experience in the dynamos field which enriched my knowledge in the research and met some other students from different places working in the same field of mine, which will be a point of interest for future work.

More Information about the meeting can found on the meeting website :<http://oh.geof.unizg.hr/index.php/en/meetings/cespm2019>

