

**COST**  
**Short Term Scientific Missions**  
**Report – 14 September 2015**

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**STSM Title:** Spectro-polarimetry of the Solar Corona with the CorMag and the COMP-S at Lomnický štít Observatory

**COST STSM Reference Numbers:** COST-STSM-MP1104-25014 and  
COST-STSM-MP1104-25020

Scientific Report

**Objectives of the STSM**

The main objectives of this STSMs were:

1. to coordinate the CorMag observational campaign with the Coronal Magnetograph and Polarimeter – Slovak (CoMP-S) coronagraphs, also installed at the Zeiss- coronagraph of the Lomnický Peak Observatory;
2. to perform the cross-calibration of the two instruments;
3. to investigate the contribution of stray-light and eventually find solutions;
4. to complete the data calibration and data reduction pipeline;
5. to produce 2-dimensional maps of K-corona emission and quick-look movies showing the overall evolution during the observational campaign.

Due to the bad weather conditions it was not possible to perform the scheduled activities involving coronal observations. Some technical activities (optics cleaning, check of the pointing system of the two coronagraphs,.. ) and the development of some routines for the data analysis software have been carried out. Three different observational scripts for different sky conditions have been also developed during this visit. The AISAS takes in charge coordinated observations with the two instruments when the sky conditions will be good. We attended to diary meetings to discuss the

status of the installation, to report and to share the last progress and to consolidate and to extend to other projects the collaboration between the institutions.