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The physics of Space Weather

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Space weather chain consist of many components connecting phenomena from the Sun which propagate in the interplanetary and near-Earth's space with the ground. Forecasting the potential space weather hazards has become vital in our everyday life because today we are completely dependent on uninterrupted operations of human technology in orbit and on the ground. Each component of space weather has a different time scale and impacts a different technology. Therefore, predicting space weather effects is very demanding and requires a wide range of spacecraft and ground instrumentation for observations, collaborative effort of scientists with different expertise as well as active involvement and feedback from end-users. Despite these challenges, space weather became increasingly popular not only among the researchers doing space physics but also in astrophysics community where it finds application, for example to the environments of exoplanets. In addition, the space weather community is a good of example for better gender balance, where female colleagues can be found over the entire spectrum of career stages including many in leading positions worldwide.

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