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国台学术报告 NAOC COLLOQUIUM

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Advances in the study of solar multi-scale magnetic activity

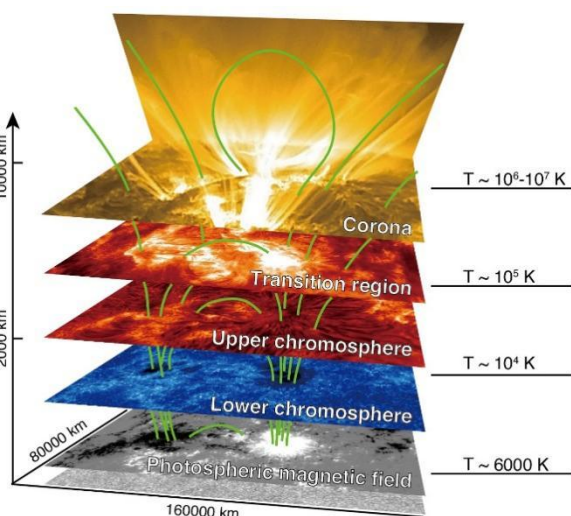
Dr. Guiping Zhou (NAOC)



Dr. Guiping Zhou is a researcher at the NAOC, majoring solar physics. The emphasis of her studies is laid on the large-scale source regions and initiations of coronal mass ejections, small-scale magnetic activities, and exploring solar-like stellar activities. Now she serves as the group leader of the Solar Magnetic Activity Research Group.

Abstract

Magnetic fields on the sun are constantly evolving and driving various of electro-magnetic interaction processes. As the only star that can be accurately observed by full-wave bands, the Sun has been a natural plasma laboratory to reveal lots of common physics in the universe. With the developments of high spatial- and temporal-resolution observations, it permits us to deeply investigate the physical mechanisms



of solar magnetism and magnetic activity from tiny scale to global scale, from short durations to long periods, and from their possible impacts on the solar-terrestrial space weather and climate. In addition, as a normal star, the Sun provides important guidance to investigate stellar magnetism and magnetic activity. Based on the current understanding of the Sun, it's time to explore stallers by regarding the sun as a star. This report will focus on the study progress in these aspects.



All are welcome !