



Evolution of magnetic fields with helicity in solar eruptive active regions

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The magnetic field is a key parameter to understand the solar activities and helicity provides the handedness of relevant magnetic field. Some super active regions provide the powerful energy for the flare-CMEs. In this talk, we would like to present studies on the evolution of magnetic fields in solar active regions with magnetic (current) helicity based on the solar magnetograph observations. We also discuss the possible relationship on the interaction between the different magnetic fields systems in the eruptive process of solar flare-CMEs in solar active regions. We compare the possible difference on the helicity properties for different kinds of active regions and also the possible relationship with solar cycles.