Session 2

(Invited) Spectro-polarimetry of the sun from space and ground: What we learned and issues for the future

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Spectro-polarimetry is an indispensable tool for the modern solar physics. Its highest priority is to determine the magnetic fields that govern the dynamics of the outer solar atmosphere, while fascinating engravings of quantum physics found in the polarization signals in solar spectra also attract our attentions. For these reasons, a significant progress has been achieved in past decades thanks to the development of opto-sensing technology. Distinctive instruments are currently in operational in a number of ground facilities with large or small telescopes and in space. Development of advanced instruments are also under progress for the next generation, especially towards the measurement of 3D magnetic fields penetrating in low beta regions. In this talk, after a brief review of the solar spectro-polarimetry in Japan, I will present what we learned and issues for future step.