[S02-1] Development of an Automatic Data Processing Program of BOES

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We developed a program to process BOES data automatically. It processes the whole data of one night automatically – preprocessing, extraction of one-dimensional spectra and wave length calibration. The execution is very fast and the performance looks pretty good. We will show the performance of this program and compare with the result processed using IRAF.

[S02-2] Novel Computer-aided Alignment Techniques for Astronomical Telescopes

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New generation two mirror based astronomical telescopes often require for diffraction-limited performance and wide field of view. These requirements tend to impose the tight tolerance onto the secondary mirror alignment. Furthermore, the technological evolution in the field of active-adaptive wavefront control, both in space and ground based applications, can be materialized in day-to-day application only if the efficient mathematical algorithm for accurate estimation of the 5 key alignment parameters (decenter x, y, tilt x, y, despace along z axis) from the observed wavefront error were made available. We report the recent progress in the development of a new alignment algorithm based on Zernike polynomial, and its successful demonstration in aligning a 900mm collimator and a 76mm space optical system.