Atmospheric Exploration
Shanghai Institute of Technical Physics, Chinese Academy of Sciences

Aiming at the commanding heights of international remote sensing competition, this research group has been focused on the strategic requirements from the meteorological domain and atmospheric probing. By breaking through key technology of three-dimensional atmospheric optical sensing with high accuracy, they complete the design and fabrication of almost all space-borne main optical payloads for meteorological detection successfully. A technical system for developing optical payloads of meteorological satellites has been established. The group developed GIIRS, which is the first high spectral sounder ever flown in geostationary orbit, with the spectral resolution of 0.625cm-1. The rapid observing hyper-spectral atmospheric sounding technology with high accuracy fills the gap in three-dimension fine remote sensing. The international meteorological community is eager to use this new type of data GIIRS gained. This group has accomplished significant contributions in upgrading and updating national atmospheric probing technology, and exceeding the international level progressively. The technology will play an irreplaceable role on atmospheric frontier sciences.

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and accomplished payloads including spectral imager, interferometric sounder, infrared

Hua Jianwen

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