

Preliminary design of the integrative control system for KVN's instruments & power supplies

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We present a preliminary design of the integrative control system for Korean VLBI Network(KVN)'s instruments and power supplies, based on the programmable logic controller(PLC). The integrative control system makes possible to operate these equipments within a site and to monitor their status remotely and automatically. The aim to introduce the integrative control system are to increase the efficiency of the site operation for smooth VLBI observation and to protect the equipments from the probable damage by the unexpected external interruptions or by the unskilled operations. It is also helpful that the whole system in the KVN site shall be stabilized and adaptable in real-time operation. The system can be characterized with the control parameters from the instruments included. In order to obtain a stable solution of the system, the transfer function with the control parameters is calculated for a set of optimized control parameters. We will present some very preliminary results.

대형광학망원경 방향 설정 - GMT 참여

김영수, 성현일, 안상현, 이동욱, 천무영, 김상철, 김호일, 박병곤

한국천문연구원

한국천문연구원에서는 대형광학망원경을 개발하기 위하여 기획을 하고 있다. 변화하는 환경에 대처하기 위하여 계획을 기본부터 점검하였고, 새로운 방안을 도출하였다. 이는 현재 개발되고 있는 세계 최대급 망원경인 25m GMT (Giant Magellan Telescope)에 지분참여 하는 방안이다. 이 발표에서는 그동안 수행한 GMT 망원경의 개발방안에 대한 기획연구 내용을 소개한다.