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Electron Proton Helium Instrument (EPHIN)

The Chandra local particle radiation environment is monitored by the EPHIN detector. EPHIN consists of an array of 5 silicon detectors with anti-coincidence. The instrument is sensitive to electrons in the energy range 150 keV - 5 MeV, and protons/helium isotopes in the energy range 5 - 49 MeV/nucleon. The field of view is 83 degrees and the instrument is mounted near the <u>HRMA</u>. EPHIN data rates are monitored by the <u>OBC</u>, which activates commands to safe the <u>ACIS</u> and <u>HRC</u> instruments during periods of high radiation such as a solar flare.

The forerunner of the Chandra-EPHIN was flown on the SOHO satellite, SOHO-EPHIN.

The EPHIN instrument was built by the Institut fuer Experimentelle und Angewandte Physik Extraterrestrische Physik at the University of Kiel, Germany. Drs. Reinhold Muller-Mellin and Hoarst Kunow are the Co-Principal Investigators.

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