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http://www.asc.rssi.ru/radioastron/newsletter/newsl_rus.pdf

Spektr-R radiometers in the all four bands are functional

The space radio telescope Spektr-R has on-board receivers covering four bands. First in-orbit receivers' tests were completed recently. We are happy to report that radiometers in all the bands are functioning properly. Total system temperature values were measured and preliminary values are indicated below. These values are close to the specs and confirm high sensitivity at all the bands. Specifically:

- * 92 cm (P) band total system temperature: about 200 K
(made in: LNA - India, the rest of the receiver - Russia);
- * 18 cm (L) band total system temperature: about 40 K
(receiver made in Australia);
- * 6 cm (C) band total system temperature: about 70 K
(receiver made in Russia);
- * 1.3 cm (K) band total system temperature: about 60 K at 22 GHz
(made in: LNA - USA, the rest of the receiver - Russia).

The shown data are results of measurements performed in a single circular polarization for each receiver out of two polarization available. More detailed performance measurements of the receivers and the space radio telescope as well as telescope pointing corrections, etc., at these four frequency bands are planned for the near future.

With best regards,
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