

Intercomparison of passive radiation monitors in Russian segment of ISS (Space Intercomparison/BRADOS II)

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We conducted an intercomparison experiment for passive radiation dosimeters as part of the BRADOS experiment on the International Space Station in 2004. Six dosimeter boxes were exposed at locations throughout the Russian segment of the ISS. One of dosimeter boxes consisted of an intercomparison experiment and contained passive detectors from four institutions (NIRS, IMBP, Eiril Research/OSU and ATI) using LiF TLD, MSO TLD, Al₂O₃:C OSLD, Glass detector and CR-39 PNTD for a period of 91.5 days (Phase-1). The other five dosimeter boxes were prepared by IMBP and NIRS using LiF TLD, MSO TLD, Glass detector and CR-39 PNTD and exposed for a period of 268.5 days (phase-2). For the intercomparison, preliminary data from the luminescence detectors and CR-39 PNTD from each laboratory are presented. Preliminary data from six locations are also presented as a function of shielding depth.