Further studies on the elemental composition of lunar surface materials

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Abstract

The work on elemental composition reported at Houston in January 1970 on Apollo XI materials has been continued and extended to give more accurate results on the four samples supplied, 10057, 10059, 10060 and 10084.

It is expected that a substantial part of the analytical work on Apollo XII samples 12022, 12065 and 12070 have been completed in time to be reported to the Houston meeting in January 1970.

The methods used remain as before, i.e. emission, X-ray fluorescence and spark source mass spectroscopy for survey analysis with neutron and high energy gamma ray activation analysis, and mass spectrometric-isotope dilution analysis for the more accurate work.