COMPUTER APPLICATION TO SOLVE THE GEOLOGIC TASKS ON RADIONUCLIDE COMPOSITION OF NATURAL EVNIRONMENTS

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Knowledge on the radionuclide composition of natural environment are the base to solve numerous geological tasks: location of tectonic disturbances, valuation of their activity, search for oil-gas structures and fields of ore minerals, correlation of barren series and rates of plates creep of tectonic covers, processes of migration and concentration of different elements and etc. But the identification of radionuclides in multicomponent environments, valuation of activity of each radionuclide, its contribution into the integral study, relations between them are the complex task, nearly insoluble without PC usage.

We had worked out the system of automatization of radiometric measures (SARI) on base of multichanel analyzer of impulses, detectors of ionizing radiation and PC installed into the system, is successfully used to solve numerous geologic, geochemical, geophysical and ecological tasks.