

Experimental checking results of mathematical modeling of the radiation environment sensor based on diamond detectors

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For verification of mathematical model the radiation environment sensor a series of experiments was delivered. Researches were conducted by use the radiation beta source Sr90-Y90 . Based on the obtained experimental data comparison with work of mathematical model was carried out them. It is established that experimental values of the transformation coefficients K of charge sensitive amplifier match the calculated values the first four channels within 6%, and also that relative errors of the calculated account speeds of particles counters, rather experimental, don't exceed 10%.

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