IRPA9
1996 International Congress on Radiation Protection
April 14-19, 1996
Vienna, Austria

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Abstract No 90603
Receipt
Author 20347
Acceptance
03. Aug. 1995
Mini-Presentation

FORM FOR SUBMISSION OF ABSTRACTS
(Instruction for preparation on reverse)

PAPER TITLE

IHEP reference fields in quality assurance system of radiation control at charged particle accelerators

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MAJOR SCIENTIFIC TOPIC NUMBER 4.1

ABSTRACT

The set of neutron reference fields with the mean energies from thermal up to 4 Mev were created at IHEP on the base of the radionuclides sources (Cf-252, PuBe) and special systems for neutron spectra degradation. These reference fields are a system of common usage and research directions in framework of Metrological Council on Charged Particle Accelerators (MCCPA). MCCPA is consist of authorities from IHEP (Protvino), JINR (Dubna), INP(Gatchina), Mendeleev's Metrological Institute (S.Petersburg).

IHEP reference fields:

- are supplied by instruments and methods of sertification, that include Russian State Standarts;
- serve for calibration of measurement instruments for radiation control systems at the charged particles accelerators;
- are used for intercomparisons of various measurement instruments (dosemeters, ratemeters, spectrometers).

These works are carring out during 10 years in framework of MCCPA and provide the quality assurace of radiation control at charged particle accelerators in Russia.