arduino geiger PCB

2017 m. kovo 15 d., trečiadienis

Conversion rates for Soviet made Geiger-Müller tubes

There is a compilation of the experimental CPM to uSv conversion factors for Geiger-Müller tubes manufactured at Soviet times. Experimental measurements are done for the natural mix of energies relative to same measurement condition readings of Cs137 calibrated equipment.
Though every tube might have some deviation from such readings most tube's readings give a quite similar results. These numbers do quite well for popular measurements - usually within 1uSv range.
(please kindly comment if you have different data or can challenge the data below in some way as it might help to improve this reference table). As time allows I will be maintaining and adding the data for other tubes.

SBM-20 - conversion factor 220 CPM -> 1uSv/h (working voltage- 400V)
SBM-21 - conversion factor 20.83 CPM -> 1uSv/h (working voltage- 400V)
SI22G - conversion factor 792 CPM -> 1uSv/h (working voltage- 400V)
SBM-19 - conversion factor 928 CPM -> 1uSv/h (working voltage- 400V)
STS-6 - conversion factor 928 CPM -> 1uSv/h (working voltage- 400V)
SBT-9 - conversion factor 150 CPM -> 1uSv/h (working voltage- 400V)
SI-29BG - conversion factor 122 or 112 CPM -> 1uSv/h (depending on batch) (400V)
SBT11 - conversion factor 220 or 318 CPM -> 1uSv/h (depending on batch) (390V)
SBT11A - conversion factor 220 or 318 CPM -> 1uSv/h (depending on batch)(390V)
SBT10 - conversion factor 1250 CPM -> 1uSv/h (380V) (depending on batch) (345V)
SBT10A - conversion factor 1250 CPM -> 1uSv/h (380V) (depending on batch) (345V)
SI8B - conversion factor 1250 CPM -> 1uSv/h (400V)
SI8BM - conversion factor 931 CPM -> 1uSv/h (380V)

Pranešimą parašė gamma ties 20:27

1 komentaras:

Gellert 2018 m. gruodžio 5 d. 18:12

Thanks !

Atsakyti

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