

## Radiation hardness of vacuum phototriodes – VPT.

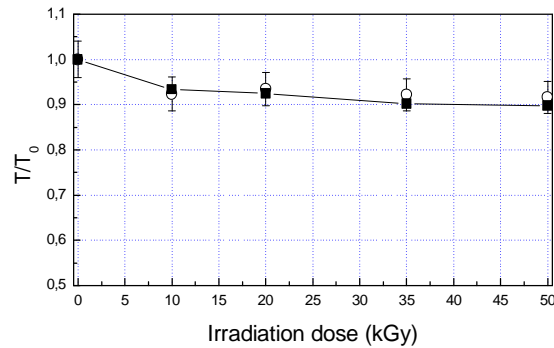
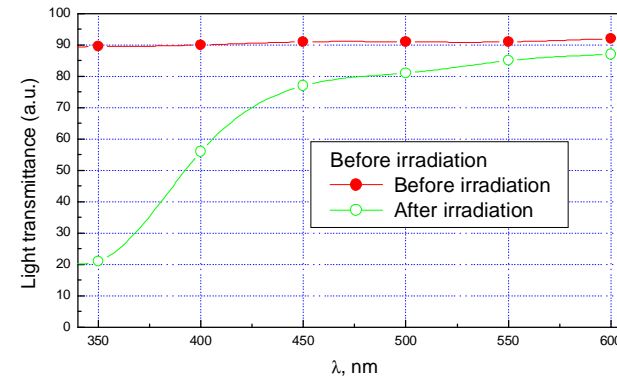


Fig 1.

Relative light transmission of UV faceplate in the emission range of  $\text{PbWO}_4$  crystals (■) and relative anode response of VPT (o) at  $\lambda=450$  nm. Excess noise factor after 50 kGy gamma irradiation on 10% more than before irradiation.



Relative light transmission spectra of UV faceplates before and after irradiation:  $7 \cdot 10^{14}$  neutron/cm<sup>2</sup> and  $\sim 100$  kGy gamma. Measurements at PNPI reactor. The loss of  $\text{PbWO}_4$  scintillation light in the range of (350-600) nm – 19 %.

