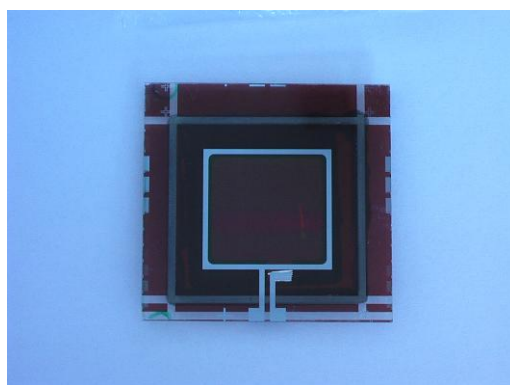


Alte montaje de laborator si rezultate



a

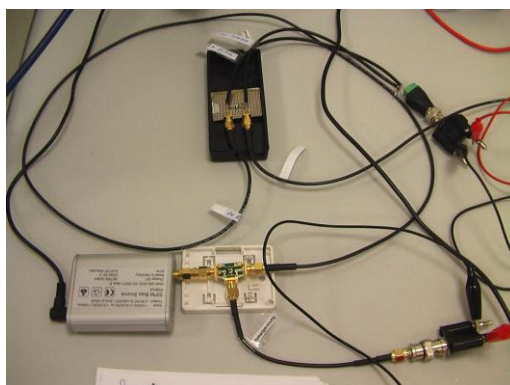


b

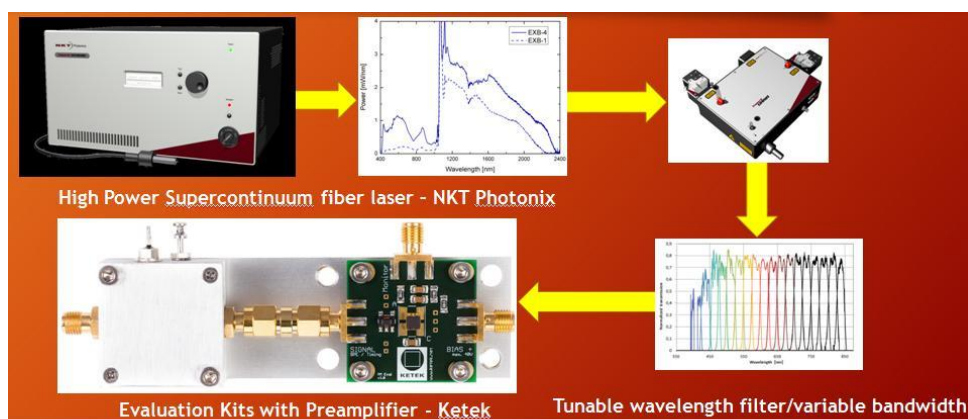
Fig 1 Exemple de dispozitive investigate: a – SiPMs produse de Ketek (Germany); b - celule solare organice produse de Holst Centre – Solliance, TNO (Olanda).



a

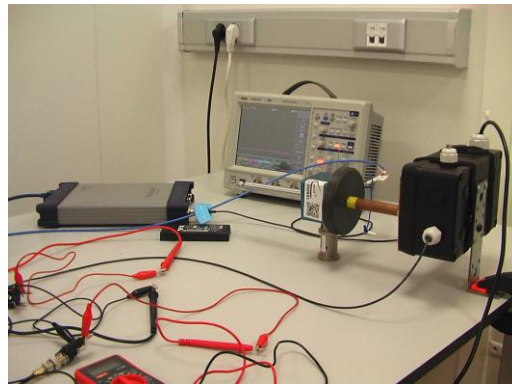
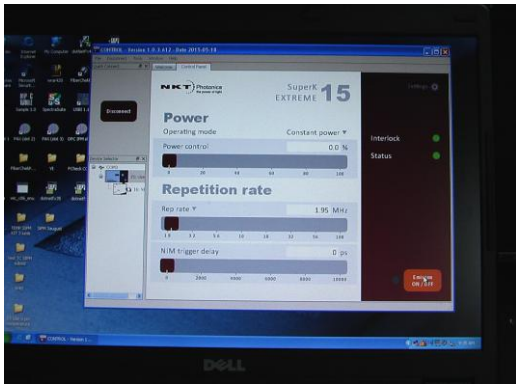


b



c

Fig. 2 Montaje experimentale pentru caracterizarea dispozitivelor SiPMs: a – placa de testare produsa de firma Ketek; b – circuit de alimentare pentru SiPM; c – montaj experimental pentru excitarea SiPM la diferite lungimi de unda cu o sursa laser acordabila de ps.



a

b

Fig. 3 Interfata de control a laserului acordabil (a); montaj experimental pentru achizitie de date utilizand instrumentul Picoscope.

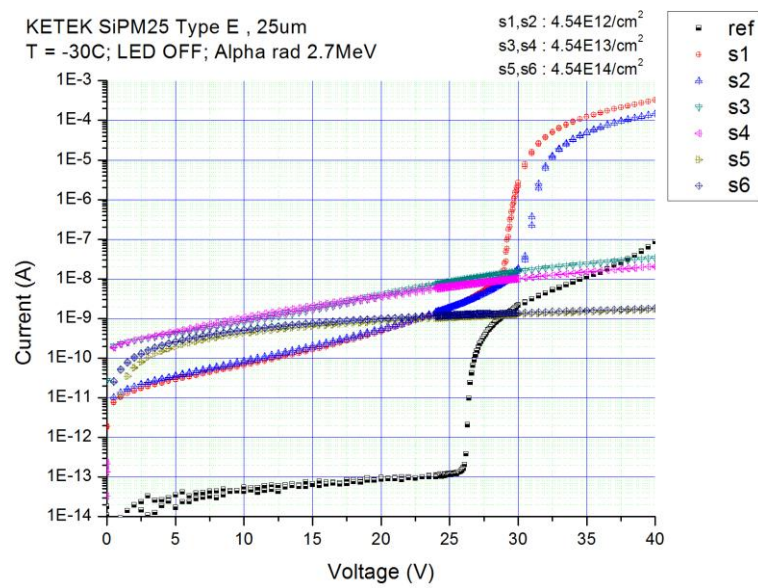


Fig. 4 Degradarea ca urmare a iradierii cu particule alfa a caracteristicii curent-tensiune in cazul unui detector tip SiPM I-V.

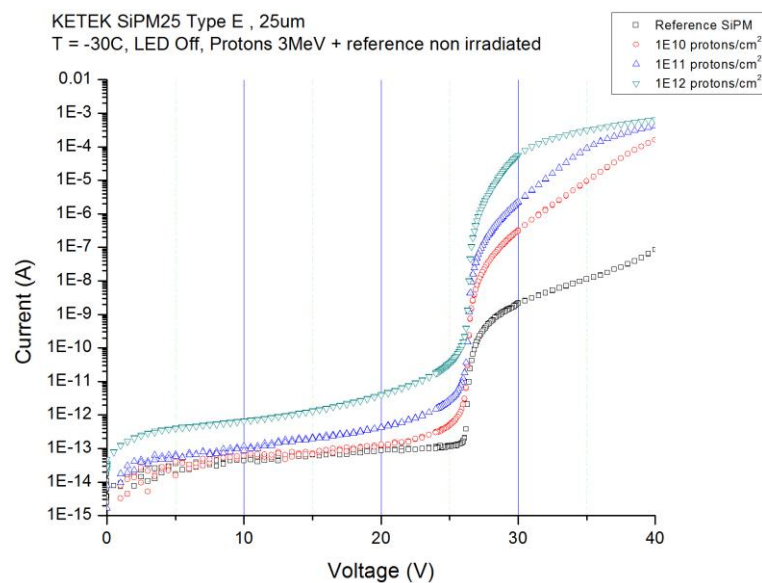
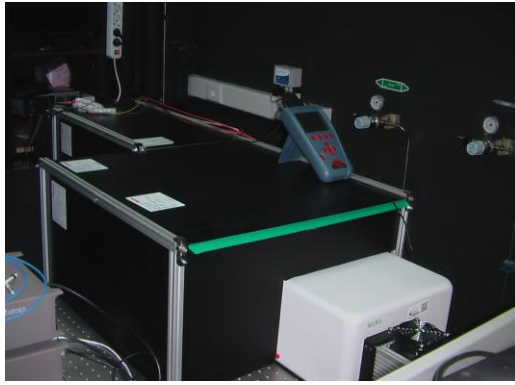
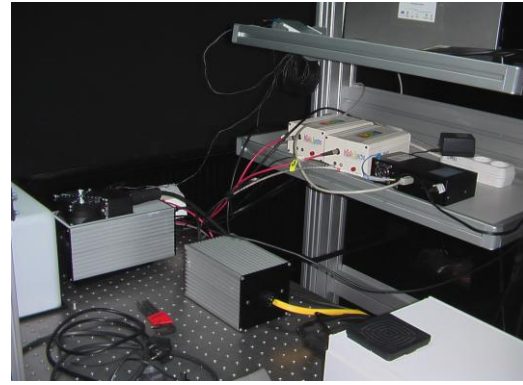


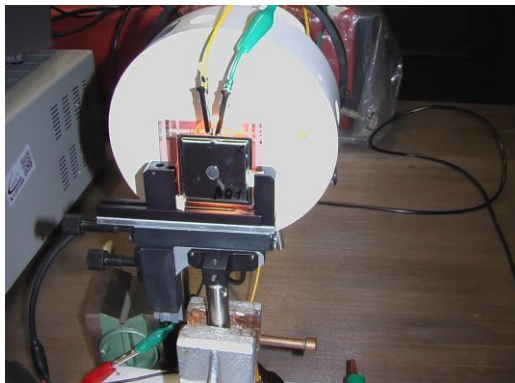
Fig. 5 Degradarea ca urmare a iradierii cu protoni a caracteristicii curent-tensiune in cazul unui detector tip SiPM I-V.



a



b



c



d

Fig.7 Simulatorul solar (a) si montajul experimental pentru caracterizarea acestuia (b); c si d – montaje experimentale de laborator pentru evaluarea celulelor solare.

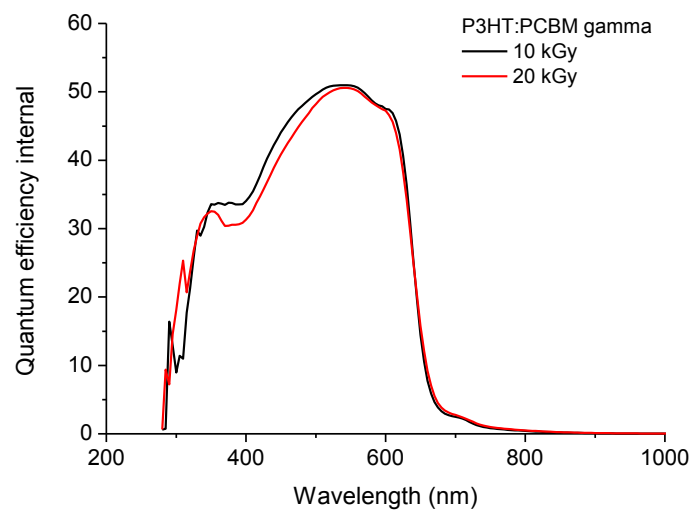
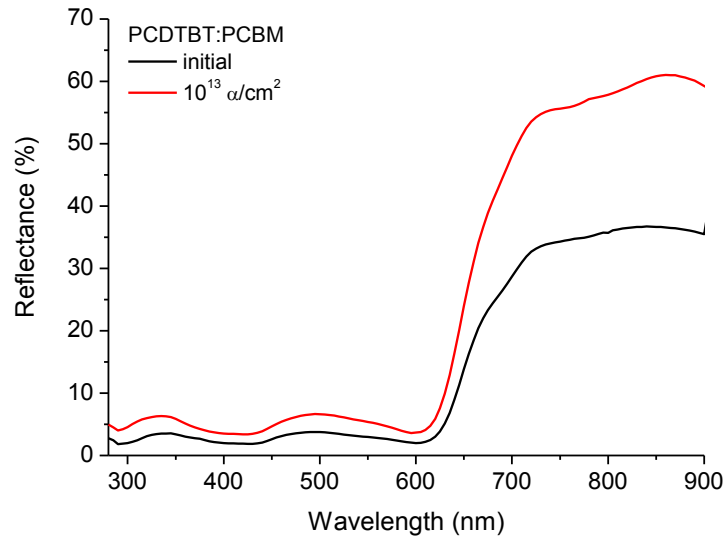
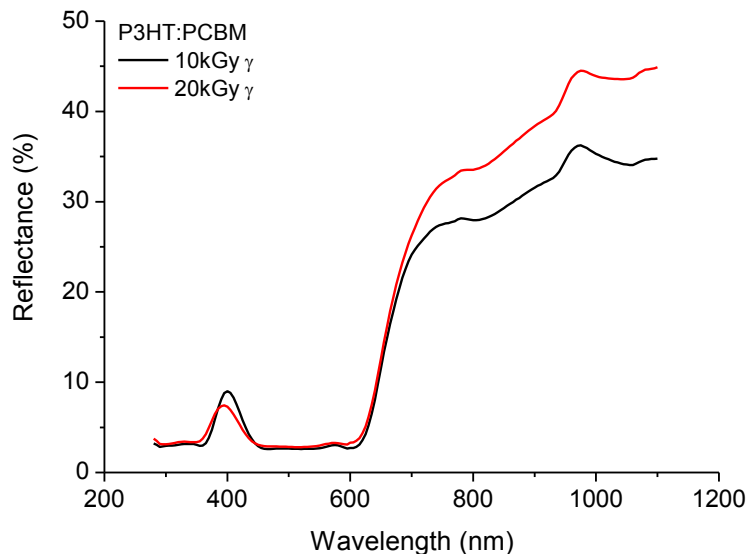


Fig.8 Modificarea eficientei cuantice interne a unei celule solare ca urmare a iradierii cu radiatie gamma.



a



b

Fig. 9. Modificarea reflectanței spectrale difuze în cazul a două tipuri de celule solare organice pentru: a – iradiere cu particule alpha; b – iradiere cu radiație gamma.

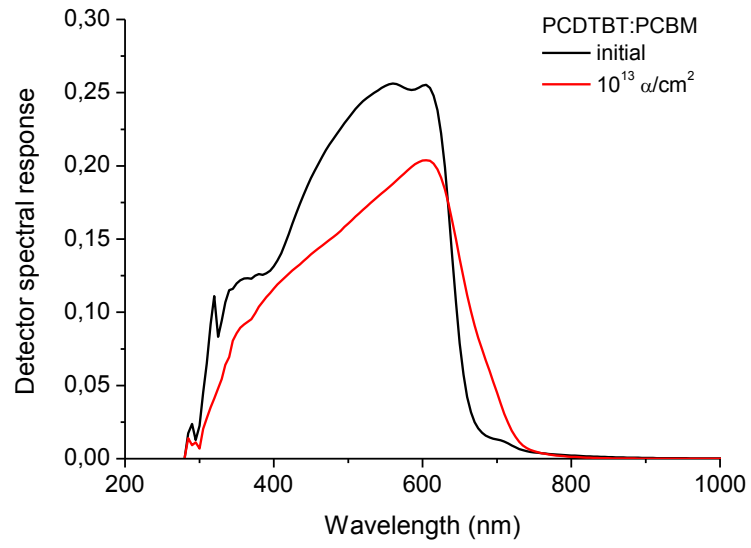


Fig. 10 Variatia responsivitatii spectrale a unei celule solare organice dupa iradierea cu particule alfa.