· Compton Edge'. Produced by compton Scattering @ different ungles · Compton Continum: Corresponds to distribution or energy between incident of and scattered e during compton scattering · Ex: Every of & being absorbed by detector 10 10 10 profinctory respir -10 Semiconductors are best for of spectroscopy -19 4) Semiconductors have better Energy resolution than Scintillators because the steps to convert radiation to light to electrical Egnal are nothingent and there is a small number of curriers Created. The Standing or pulse hight in Semiconductor is much Smaller because the energy needed to produce electron-hole-poirs is relatively low. S(As discrimente pulses based on set thresholds or within a certain range and has an analog output. MCAs are similar to SCAs but have multiple by to sort du pulses in different thresholds so the output is more digital. SCAs can be used to measure intersity at a certain type of radiation (x-rays for example). M(As com be used to analyze mark different types of radiation

Hw7 HT = ZWRDTR = 1 (15) + 20(1) = 35 m SV Skin' 0,20 Stomach: 0.05 Ezmily Det Tuested Eskin = 0.2 (35) . 0.01 = 0.07 mSv Estan = 0.05 (0.12) (35) = 0.21 msv total = 0.28 mSv Elborne = L ya Nt JUN - 23 (: = 23000 m(1 1=3.3 Rm2200 = 33 (23000 \ (0.167) = 6,051 R

Dosh whitehead ruch 3100 Hw7 total 2 0.5 Gy 2 500 mby Marry = 1 10.0 - may 7 w Hr = 500 (1) =500 msy 1== W, 14, = 0.01 (500) = 5 m SV D=1.6x10-10 A E E=1 MeV disintegration : orresonation THE D= 1.6x00-10 (1.85x105) (1) = 1,345x0-6 6 m= 25 E = SMeV D= rex0-10 (1.82402) (2) - 2.45 × 10-6

2084 whitehead HW 7 (BROWERD) 25R t-3h r=5.5 cm AS J. 620 ESt 7 25 (0.00877) 4-52 (2.2) - 10,00±555 m(; A- 25 (5.5) 76.38889 ~ (: