Hw 6 RZEWHM FWHM = 490-435=55 :. R 435 = 55 = 0.126 Ry00 - 55 - 0.112 < Smaller : R= 11,290 2)-In Saturation region a - Proportional region (b) - Limited proportional region - Not use Ful - Greger Mueller region (C) - recombination region - NOT EVERVI well suited for & exposure and high dose rate messurements - Not well sited for lower energies because there 15 no Charge amplification b) - Good for lower energy because it amplifies the Charge - Good for mixed radiation environment - Bad because it requires Stable power supply to keep voltage Constant () - Good for producing a Strong signal - But because it has a love every resolution - Bad booked for mixed radiation

Josh whitehead MANY POWER POR Activators are needed because excited e will move from the valence to Conduction band but when it returns to baterie shell it peleases a photon that is too high in energy. The activator creates electronic levels in the forbidden gap so the electrons can release aphoton in the cornect wavelength Organic Scintillators don't need impurities because their fluorescence medianism comes from the transition of every level of a single molecule and can be observed independently of the physical State. Digging I rorganic Scintillators shouldn't be disabled because they are dependant on the CMSHI lattice so when it's dissolved, If the lattice is broken up Organic Schnillators can be dissolved because they are made at organic molecules with a certain Clectronic Structure. as enter executive and live modern of the

Josh Whitehend Hw 6 Inorganic Organic NaI - Pure Crystals -- anthracene - Stilbere BJFZ - raphtalene · Liquid sintillators · Plastic