Homework 23 ay Qo = ne npdB = Do = nenpdB V & = Qo = nenpD2 FodB Optically thin = for = ib(T)V = V = FoD2 & Do = nenpD2 FodB = 100 = 900 02 FU 254.10-13 (T4)-0, 8163-0.0208 (n(T4)) 5,444.10-41.6.155 Dg-0.118 T4 0.177 T4-1/2 e-hD/KT. 1.1 90 the D=414pc= 414.3.1.10 cm Fo= 495.10-23 ergs cm 2/+2-1 D=1.4.109Hz = Dg = 1.4GHz Te= 9000K => T4=0.9K 10=9000K=) 14=0.31 900-(44.31.10⁸) 2.495.10⁻²³. 2.54.10⁻¹³. 0.9 -0.8163-0.0208 en (0.9) 5,444.10⁻⁴¹.6.155.1.4^{-0.118}. 6.9 0.177. 0.9^{-1/2} e^{-6.6261-10⁻²⁷.1.4-10⁻¹⁴.3207-10⁻¹⁴.5000.]]} = 6.04287 1048 photons/sec 1 log (Oo) = 48.78 => 07 V spectral type