Blott8 David KET Lais 21 Stt+ ce= (P1+P2)2+ (P1-P3)2+ (P1-PA)2 = (Pa+P212 + (Pu-P212+ (P3-P2)2 = P,2+82+132+12+2 P22+2018-2P2P4-2818 = m12+ m2 + m32+ mu2 + 2822+ 78182 - 28282-28283 =D 2P2 = ZP2Pn + ZP3P3 - ZP1P2 P2 = P2(Pn+P3-P1) = P2 = F St + u = m = m;2 b) S= P12120,P2+522=8,2+2(E1E2-6, P2)+P2 ( Pi = ( 3) ) P, 2 = E, 2 - P, 2 = E, 2 - P, 2 = - F, P2 5=P12+2(E1E2+E, 2-P12)+R2 P2 = E2-P2 = 17 E2 = P2+E1-P12 S= 8,2+822 + 2(E, 182+=2-822 + E,2-8,2) S +012-P22-2E12 = Z E1 0 P2+E2P2 (Stp. 28-8212-4E1 (Stoi2-821+4E12 = 4E, 2 (822+E12-82) (S+P)2-P2 12 = 4 E,2/(S+P,2-P2) 1+ (P2-P,2) ] =4 E,35 = 17 E/2 = (5+0)2 (83) = in massen? (1) 1,5/2 P CI Eggs = Elsp + Ersp S=(PITP212 = (Fist + Ersp) =17 Ecesisp = 137 V dl Elost. Strewng: mi=m3 m = my 5210 By 2 ELENS BUST  $t = (p_1 - p_3)^2 = -(\vec{p}_1 - \vec{p}_3)^2 = -\vec{p}_1^2 - \vec{p}_3^2 + 2\vec{p}_1\vec{p}_3$   $= -2/p_1^2 (1 - \omega_3 \theta)^2$   $= -2/p_1^2 (1 - \omega_3 \theta)^2$ Vur niet gefragt Fir U 5 ? schwellenergie: Es = 2 (mt-mo) = L(173-0, 958/GeV = 344,124 Ger f Of

b) 
$$S = (P_1 + P_2)^2 = (E_1 + E_2)^2$$
 $\frac{1}{L} SP : P_1 = P_2$ 
 $\frac{1}{L} SP : P_2 = P_2$ 
 $\frac{1}{$ 

