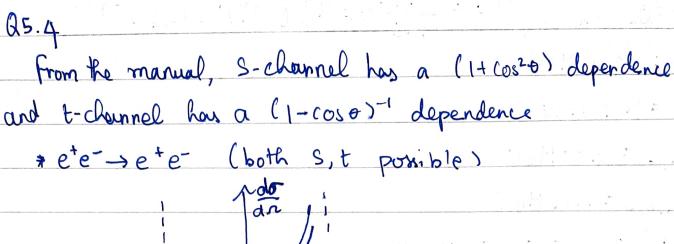
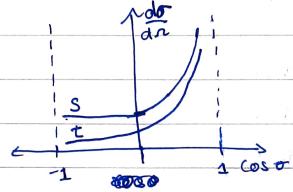
PRE-LAB QUESTIONS	Ajay	Shanmuga	Salkthivasoun
Q5.1. We can use, If = Nc 12 GF MZo (Gf)2+	(g f)	-)	
Γ _e = 84.1 MeV			
[3 = 167 MeV	la Medical, and de la participate de la fina per presentam en en el composition de la composition della composition dell		
[u, c = 288 MeV	, v	. ,	
rd,s,b = 371 MeV			
a) [(z° → e+e-) = 84.1 MeV	1		
b) [(z° → µ+ µ-) = 84.1MeV			
c) \((Z° → \(\tau^+\tau^-) = 84.1 MeV	. ,		
d) r(z°→ uū) = 288 HeV	_1		
[(Zo → da) = 371 Mev and So on			
Q 5.2			
a) total decay width = 2442.3 MeV			
b) hadronic decay width = 1689 Mev	-		
c) Chalged decay width = 252.3 MeV			
d) Neutral decay width = 501 MeV		. A. Silve	
e) Partial cross section at the maximum of t	he re	son ance	
is given by opening = 1271 re re M2 rz rz	· · · · · · · · · · · · · · · · · · ·		
	4 (*)		
Hadronic = 10.8 × 10-12 MeV-2	(*		,
Charged = 1.6 × 10-11 Mev-2			
mentral = 3.2 × 10-11			
Q 5.3			
We have decay into additional pair of light	fermi	ms.	
[Tb++ Te+Tv+Tu+Td -1) X100			
[tot			
= 58%			





Q5.5

We use, AFB \(\frac{1}{2} \) \(\text{Ue}^2 + ae^2 \) \(\text{Ue}^2 \cdot \ a_f^2 \)

GeV/Angle 0.21 0.23 0.25

89.225 -0.0215 -0.0234 -0.0250

91.225 -0.02101 -0.0229 -0.0244

93.225 -0.0220 -0.0239 -0.0255