Roberts	CUESO TEORIA CUANTRA DE CAMPOS	HOJA N°	
Guiparado	J. GARCÍA - EJERCÍCIO CAP 19	FECHA 13/5 19	
0 1 0 2 3			
Dada la signient	e acech !		
	$S = \frac{1}{2} \int dx \left[ \partial_{\mu} \phi \partial^{\mu} \phi + \mu u^{2} \phi^{2} \right]$	1	
	<u> </u>		
a) Demotrar ou	1 - 1 [du \$ du \$ - n2 \$ 2]		
the second secon			
es suramente	bajo la transformation		
	- 8 B x '		
	5 x * + 7 x * -		
X = X			
×3′ = ×3			
6 d 6 = = ]	- \$ 6 0 6 4 8 6 6 6 4 8 6 0 16 4 8 6 9 6 9 6 4 8	- nu 82	
<u> </u>	30		
	• = 0°		
G	, = - <del>0</del>		
7 = 1 [ 2 & 2	- 2, 8 2, 8 - 2, 8 2, 8 - 23 \$ 23 \$ -	04 × 82 7	
2 6	3/ 1/		
= 1 1/3 2	1 (2 8) 2 (2 4) 2 (2 4) 2 2	<u></u>	
2 [ 7, 7	$(\partial_1 \not p)^2 - (\partial_2 \not p)^2 - (\partial_3 \not p)^2 - m^2$		
	od gx, gk gx, gk gx,	9¢ ∂x³′	
$(x^{\alpha'})$	x°' 3x° 3x' 3x° 1	)×3′	
	~~	1	
	γ - δο ο	0	
∂. Ø = 8 7	74-800,4		
9, 9, 3, 3	$\checkmark$ $\partial x^{\circ'}$ $\partial \phi$ $\partial x^{1'}$ $\partial \phi$ $\partial x^{2}$ +	98 9x3	
(x*) = 2	X , 9x, 9x, 9x, 9x, 9x,	∂x³ ∂x1	
		',	
	-80	0	
∂, ø = - 8	( ) 4 + 8 ), 6		
		3/	
2, p(,a') = -	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\frac{\partial \Phi}{\partial x}$ $\frac{\partial X}{\partial x}$	
7 (* 7	$\partial x^2 \partial x^2 \partial x^1 \partial x^2 \partial x^2 \partial x^2$	∂x³′ ∂x²	
	0 0 1	PF DE	



