3agara 0-6-1  

$$T-?$$
 $E_{L} = \frac{h^{2}}{2I}(L+1)L$ 
 $A = 1,2A$ 
 $E_{1}-E_{0} = \frac{h^{2}}{I}$ 
 $E_{1}-E_{0} = \frac{h^{2}}{I}$ 
 $E_{1}-E_{0} = \frac{h^{2}}{I}$ 
 $E_{2} = \frac{h^{2}}{I}$ 
 $E_{3} = \frac{h^{2}}{I}$ 
 $E_{4} = \frac{h^{2}}{I}$ 
 $E_{5} = \frac{h^{2}}{I}$ 
 $E_{7} = \frac{h^{2}}{I}$ 
 $E_{1} = \frac{h^{2}}{I}$ 
 $E_{2} = \frac{h^{2}}{I}$ 
 $E_{3} = \frac{h^{2}}{I}$ 
 $E_{4} = \frac{h^{2}}{I}$ 
 $E_{5} = \frac{h^{2}}{I}$ 
 $E_{7} =$ 

3agara 0-6-2	5			SENCIA		
E= 12,5 + B	e	E				
Emin-pacceareus-?	L1=	$\frac{me^{4}}{2\hbar^{2}}$	1=-	- Ry = -13,	6 3 B	
	E2 =	- me4 2 t2 2 t2	1 =	- 3,43B	- C- 41	E12 = 10,2 3B
	E3 =	me4 2 1/2	19=	-1,513B	C> Al	E13 = 12,093B
				=-0,85 B	L> SE	14 = 12, 75 B
Enin 2 E - DE 13	= 12, 5-12	,09=0	), 41	3B		

4.29		En = -	252 n2	me me, rge	и - mp		
(pp)	the state of the same of the s						$\frac{1}{z} = -12, 5 \frac{1}{h^2}$ ks
88-?		A E Kym 2	12,5(-	$(\frac{1}{1^2} - \frac{1}{2^2})^2$	9, H K	9 B	
		) r kyga	32	E2, -	& Exym =	0,713	15,

4.38
$$E = h\omega = R_{3}(2-6)^{2}(\frac{1}{n_{1}^{2}} - \frac{1}{n_{2}^{2}})$$

$$2 < 50$$

$$\Delta \omega_{3} \quad K_{2} - 2ueuxponob$$

$$T_{e} - ?$$

$$cepeopo \quad E = R_{3}(2-6)^{2}(\frac{1}{12} - \frac{1}{2^{2}})$$

$$30^{2}n$$

$$6 = 2 - \sqrt{\frac{4E}{3R_{3}}} = 47 - \sqrt{\frac{421,6\cdot10^{3}}{13,6\cdot3}} = 1$$

$$47 Ag \quad E_{8} - 21,6 \times 3B$$

$$2n : h\omega_{2} = 13,6(2-1)^{2} = 13,6\cdot29^{2} = 11,4 \times 8$$

$$T_{e} = E_{8} - E_{uon} = 21,6 - 11,4 = 10,2 \times 3B$$

$$T_{e} = E_{8} - E_{uon} = 21,6 - 11,4 = 10,2 \times 3B$$

4.45	
m, c2=106, 6 MaB	$F_{y} = \frac{h^{2}}{m_{y} + e^{2}} \frac{m_{e}}{m_{e}} = V_{5} \frac{m_{e}}{2m_{y}} =$
ē	= 0,53.10 0,511 = 1,27.10 cm « 15
3p - 2s E <sub>32</sub> ?	$\frac{1}{\lambda_{32}} = R_{\infty} \left( \frac{1}{2^2} - \frac{1}{3^2} \right) = \frac{5}{36} R_{\infty} =$
	= $\frac{5}{36}$ 109737=1,52.10 cm <sup>4</sup> $\lambda_{32}$ = 656 mm
	$\mathcal{E}_{32} = \frac{hc}{\lambda_{32}} = 1,899B$