**(** 

Bullon = Enchon + D. Unin (Wont + Obar) X(n)= 1 E ( Encon(K)-Eum (K))(Qu)nc \* 3-body term from the 11P broughism  $\Delta E_{LHY} - \frac{1}{2} \Omega \frac{\partial}{\partial \Omega} \left( \frac{\partial E_{LHY}}{\partial L} \right) = \mathcal{X}(\Omega)$ 

By UNIN = Ein Dan + I Uning ( Gen' + Chin') (Sen = = (54 + 6-1) = = (5nr - 80) for Su. Cur = Enclose - fin = Enclose

New: Sur Un- Enr Un- 1 Un. (Un-tun-) & Sur Ph- Enr Pich-) (+ -> Sur- Enr (En- +2 Un) \* For Misso we are also costale Unit - Unit Shint ( we don't actualise that moder)

=> (2-02-1-1-4) = Enr (6-1)=1 => (4-1)= Inr (6-1)=1 => (4-1)= Inr (6-1)=1 => (4-1)=1 == Inr (6-1)=1 => (4

There (92 = 4 (Enr-Enr)(far) = 4 (Enr-Enr) 2

2(n) = 1 5 (20/2 ) (En-9/2) = 1 5 (dk ) [Enc (Enr 20/n)]
2(n) = 2 m Jan nr Enr 8/nr 8/nr 20/nr)

J Z (2 CK En(K) [3-1/4+20n(W)]
2 35 27 27 201 (K) [3-1/4+20n(W)]

1 1+2(2,1/6)

Unrm(K) = giono Girm F(2W+M, K2R2) with Girm = 32 (20-4M); F(3,0) = Jatie F(-3,0) (2) \* Eng(K) = tree + true (20-+m)

. Dimensionaless from: q=Felz; cenit of everyn: thus

\* <u>GIDMID</u> = <u>47779</u> MID = 2 MAG -> UARM (4)= 20 NDG CARM F [2A-+M, 9/2]

x(n)= (MW) 1/8 m g 2n n. (4) [3-1/1+2Unm(q)]

4 [ ada Unm(a) 3 = [-4 [ ada [ [Cn,m F (2n,+m,5/2]) 3] = [-4 ] 3n (a/2 + 2n,+m)^2 ]

Then: |2(n) 2 (Med) (2010a) = [-4] (20 dq (Chrm F (20rtm, 97/2))] · let c=2nga -> DEMY (c) - 1 c d ( DEMY) = x(c)

For small C-> DELLY (C) = (AC2+ BC3+) (R)

 $\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\right)^{-2}\right)^{-2} = \chi(c)$ 

Arm Burm · B= 2 1 (a) dq [Chim F(2N#m, 91/2) |3 nm 2 5 20 (11/2 12 1 1 1 1 12) ري الا (91/2+2N-+M)2 · Boo = 1 (ad [3F(0,971)]3

. Wising your notation:  $\left(\frac{\Delta E_{LM}}{2 \log^{10} M_{\odot}}\right) = \frac{1}{6} \frac{9^{(3)}}{9^{(3)}} \frac{1}{10^{(3)}} \Rightarrow \frac{9^{(4)}}{9^{(2)}} = \frac{1}{6} \frac{9^{(3)}}{9^{(3)}} \frac{1}{10^{(3)}} \Rightarrow \frac{9^{(4)}}{8^{(4)}} \Rightarrow \frac{1}{6} \frac{1}{10^{(4)}} \frac{1}{10^{(4)}} \frac{1}{10^{(4)}} \Rightarrow \frac{1}{6} \frac{1}{10^{(4)}} \frac{1}{10^{(4)}} \Rightarrow \frac{1}{10^{(4)}} \frac{1}{10^{(4)}} \frac{1}{10^{(4)}} \frac{1}{10^{(4)}} \Rightarrow \frac{1}{10^{(4)}} \frac{1}{10^{(4)}} \Rightarrow \frac{1}{10^{(4)}} \frac{1}{10^{(4)}} \frac{1}{10^{(4)}} \frac{1}{10^{(4)}} \Rightarrow \frac{1}{10^{(4$ · Then, I set LELHY \_ 2.26 (MUL) (20,00)3 + A (20,00)2 + . (Mr,M) = (0,2156 B)

 $\left(\frac{\Delta E_{LMY}}{L}\right)_{body} = \frac{1}{6} * \alpha \left(\frac{\hbar w_{\perp}}{2}\right) \cdot \left(\frac{2}{2}\right)^{3} \left(2 \Lambda_{10} \alpha\right)^{3} = \left[\frac{\alpha \alpha}{16}\right] \left(\frac{\hbar u_{\perp}}{2}\right) \left(2 \Lambda_{10} \alpha\right)^{3}$ 

I would then get of = \$101 Muthack of 4.65

· Note: If I take wings , then I get &= 3.57 as IN your paper.