

YHAL F08 050

DEPARTMENT OF PHYSICS  
OSAKA IMPERIAL UNIVERSITY.

DATE

NO.

$$\frac{d^2W}{dx^2} + \frac{2}{x} \frac{dW}{dx} = 25W + \frac{E'}{g} - 0.2982W^2, \text{ 数値計算=2)}$$

$$\rho = 1.342 \times 10^{31} W^{\frac{3}{2}} \quad [cm^3] \quad \text{1求4.}$$

$$A = 4\pi \int_0^{\infty} \rho x^2 dx = \frac{4\pi}{3} \int_0^{\infty} \rho (x_B^3 - x_A^3)$$

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$$\frac{dW}{dx} + \frac{2}{x} \frac{dW}{dx} = 25W + \frac{E}{g} - 0.298^2 W^2, \text{ 数値計算=2)}$$

$$\rho = 1.342 \times 10^3 \text{ W}^2 \dots [\text{cm}^{-3}] \text{ 1対4.}$$

$$A = 4\pi \int_{x_0}^{x_1} \rho x^2 dx = \frac{4\pi}{3} \sum \rho (x_B^3 - x_A^3)$$

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$\beta \times 10^{-36} \text{ [cm}^{-3}\text{]}$

$\lambda = 10^{-13} \text{ cm}$

$\eta$	$E=0.13 \text{ Mev}$	$E=0.2 \text{ Mev}$	$E=0.3$	$E=0.5$	$E=0.8$	$E=1.272$	$E=1.7$	$E=3$	$E=5.5$
1.5	0.00								
1.4	0.01	0.00							
1.3	0.04	0.03	0.00						
1.2	0.12	0.08	0.04	0.00					
1.1	0.30	0.24	0.16	0.08	0.00				
1.0	0.64	0.58	0.44	0.35	0.17	0.00			
0.9	1.34	1.26	1.06	0.99	0.74	0.36	0.00		
0.8	2.68	2.58	2.29	2.32	2.04	1.52	0.58	0.00	
0.7	5.10	5.02	4.64	4.93	4.75	4.21	2.58	1.41	0.00
0.6	9.30	9.30	8.84	9.66	9.88	9.66	7.37	6.04	3.72
0.5	16.08	16.27	15.86	17.61	18.72	19.53	16.94	16.47	15.90
0.4	26.20	26.27	26.63	29.71	32.44	34.09	33.71	37.74	42.98
0.3	39.75	40.77	41.48	46.04	51.05	52.16	59.25	70.13	91.32
0.2	55.59	57.22	59.41	64.71	72.09	74.70	91.87	112.51	159.30
0.1	70.46	72.61	78.20	81.81	89.99	94.89	125.05	154.73	214.05
0.05	77.90	81.62	88.02	88.56	95.64	97.65	139.84	171.51	251.62
0.03	81.81	85.55	93.16	91.17	97.07	105.44	146.14	198.75	257.80
0.01	88.75	92.48	102.49	94.99	97.99	109.17	156.48	189.62	262.09

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$\lambda = 10^{-12}$  cm. A: mass number

$\lambda$	A	$A^{\frac{1}{3}}$	$E(\text{MeV})$
1.5	31.492	3.1492	0.13
1.4	31.148	3.1464	0.20
1.3	29.941	3.1052	0.30
1.2	32.153	3.1799	0.50
1.1	33.256	3.2158	0.80
1.0	32.150	3.1994	1.272
0.9	30.813	3.1351	1.70
0.8	32.409	3.1883	3.00
0.7	37.058	3.3340	5.50



