1. Cosmology ()	
1)	
- History	
1 2 3 (.) \rightarrow () 4 vs - 5 \rightarrow	
_	
1. 6 . 3 . • Up : +2/3 Down . • Down : -1/3 Up .	
uud, udd .	
2. (Lepton)	6 . , ,
- (Hadron)	
1. & (Proton & Neutron) (gluon) . ,	
$n^0 \to p^+ + e^- + \bar{\nu}_e$	
- ,	
- (Nucleus)	
1.	.)

(Cosmic Microwave Background) 1. 2. (Lepton) 3. 4. $1~\sim 3$ 5. 6. 3 10 K 3:1 . 7. 8. $3000 \mathrm{K}$ 38 3K(Supplement 1) 1. 2. 3. - K (Kelvin) 0 0K(Celcius) 273 2) (Stellar Evolution) (Primodial Star)

-	(Main Sequence St	(ars)				
•	•	00 K				
•	•					
-	(Red Giant Branc	ch)				
•	• (1 K)					
•	• ,	•				
-	(White Dwarf)					
	Table 1:				,	
		(),		•	
				 ####		

Table 1:

 $1000~\mathrm{K}$

2.

1 K

 $\begin{array}{c} (\mathrm{He} \\ \rightarrow \\ \mathrm{C}) \end{array}$

4

	Table 1:	(),		,
-	(Hyper Giant	: Branch))		
:	10				
_	(Super Nov	ra)			
:				. ,	(Sonic Wave)
			•		·
	,			, , ,	•
:	& (Neutro	on Star &	Black Ho	ole) 	
-	1				
	 3. 		,		_
_	(Supplemen	t 2)			
-	(Lithum)	3		•	,
-	·				
	• : • :				

3) (Solar System)

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