# 第7章 前置詞 (Prepositions)

名詞(又は代名詞、動名詞)の前に置く

# §7-1 前にある語句との結合

どの前置詞を選ぶかは、後に続く名詞よりもむしろ前にある名詞、動詞、形容詞などによって決まる場合が多い。

# (名詞) + (前置詞)

evidence [U] for (of) A

a reason for A

an expression for this interaction

a change in A

the difference between A of B<sub>1</sub> and B<sub>2</sub>

an increase (a decrease) in A with B

to play a role (of B) in A

an experiment on A

the data on A

by the analogy of A

an analogy between  $\boldsymbol{A}$  and  $\boldsymbol{B}$ 

the effect of A on B

influence [U] of A on B

B is under the influence of A

an answer to this problem

research in nuclear physics(分野)

research on nuclear fission (限定対象)

(Exercise 7-1) 指弧の中に取むかされたい前直門を音さ入れた。
Fill in the parentheses with the most appropriate prepositions.
1. A change ( ) the potential has a remarkable effect ( ) the transmission coefficient.
2. The evidence ( ) superconductivity is as follows.
3. A structural phase transition was the reason ( ) the anomaly ( ) the resistivity.
4. A criterion ( ) the theory is obtained ( ) comparing the dipole moment observed ( ) that calculated.
5. Impurities play an important role ( ) increasing metal hardness.
6. Ohm's law refers ( ) the linear increase ( ) the voltage drop
( ) a resistor ( ) current.
7. New results ( ) neutron scattering experiments ( ) the spin
structure ( ) this material has recently been reported.
8. $S$ is equal ( ) the summation ( ) $i$ equals 1 to $N$ ( ) $x_i$ .
9. The difference ( ) the masses ( ) a neutron and a
proton is greater ( ) that of an electron.
(動詞) + (前置詞)
to plot y against x
to account for A 原因を説明する (to take B into account 考慮に入れる)
to substitute A for B (substitution of A for/into B)
to replace B with/by A
be calculated from A
be estimated from A
to result in A
to succeed in A

to consist of A

(Everging 7.1) 好冊の中に見まるさわしい前界詞が書きまれた

to focus on A	9. This resistivity minimum is attributed ( ) the Kondo effect.					
to depend on A	10. The feature corresponding ( ) the energy gap has always been observed.					
(dependent on A, independent of A, dependence of B on A)						
to apply A to B: 適用する (to apply for A: 申し込む)						
A is attributed to B (We attribute A to B, be attributable to B)	(形容詞) + (前置詞)					
A is ascribed to B	be different from A					
to relate to B, to relate A to (with) B	(cf. to differ from A, a difference between $A_1$ and $A_2$ )					
to correspond to A	be full of A					
be filled with A	be characteristic of A (cf. a characteristic [C], pl. characteristics)					
be equipped with A	be similar to A					
be compared with/to A (be comparable with/to A)	be the same as A					
to begin with A	be identical to/with A					
to start with A	be equal to A					
	be proportional to A					
take account (考慮に入れる) <b>の用法</b>	be applicable to A					
1. to take account of this fact	be consistent with A					
2. to take this fact into account	be compatible with A					
3. to take into account of the fact that (目的語が長い場合)						
(Exercise 7-2) 括弧の中に最もふさわしい前置詞を書き入れよ。	(Exercise 7-3) 括弧の中に最もふさわしい前置詞を書き入れよ。					
Fill in the parentheses with the most appropriate prepositions.	Fill in the parentheses with the most appropriate prepositions.					
1. X is very large compared ( ) Y.	1. Our approach ( ) this problem is entirely different ( ) all the previous					
2. The outer electrode is equipped ( ) a wire mesh.	attempts.					
3. The chamber was filled ( ) helium.	2. The current is independent ( ) the voltage.					
4. The next session will start ( ) 1 p.m. ( ) a plenary lecture.	3. We used an apparatus similar ( ) that in our previous experiment.					
5. Penetration depth of the ion was calculated ( ) the mean of these values.	4. Equation 1 is applicable ( ) the relativistic phenomena.					
6. In Fig. 4 the observed values of electron yield are plotted ( ) the	5. Our treatment is consistent ( ) thermodynamics.					
wavelength of stimulating light.	6. The period-doubling phenomenon is characteristic ( ) non-linear dynamics.					
7. The density of states was estimated ( ) the specific heat.						
8. We used a solvent consisting ( ) 60 wt. % toluene and 40 wt.% ethanol.						

# §7-2 後に続く名詞との結合

at a temperature

at a frequency at the rate of R for brevity in a magnetic field in vacuum in detail in principle in /over a range in a region in the right/opposite direction in this way in this manner in this process in the vicinity of A on the right/left with a microscope (道具) with a standard personal computer by computer by this method by this procedure by analogy, by the analogy of A under these conditions under the influence of A

### Fill in the parentheses with the most appropriate prepositions. 1. The experiment was carried out ( ) the following conditions. 2. This will be explained ( ) detail ( ) a separate paper. 3. The resolution will be enhanced ( ) up to 50% ( ) this method. 4. The S/N ratio was improved ( ) more than a factor of five ( this new receiver. ) stabilizing the reaction pressure ( 5. We have succeeded ( ) this way. 6. Mercury remains ( ) the liquid state even ( ) room temperature. 7. The scattering rate is evaluated ( ) the method of least squares.

(Exercise 7-4) 括弧の中に最もふさわしい前置詞を書き入れよ。

# 9. The crystal was irradiated ( ) X-ray ( ) two hours. Sattinger 's law: It works better if you plug it in. Horner's five-thumb postulate: Experience varies directly with equipment ruined.

8. The Eudora software was designed by Steven Dorner (

of Illinois in 1988.

) the University

# § 7-3 前置詞句

いくつかの語を結合して全体として前置詞のはたらき

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as well as A
along with A
in addition to A
in accordance with A
in agreement with A
in spite of A (= despite A)
instead of A
in terms of A
on the basis of A (= based on A)
with respect to A
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by a factor of N on the order of  $10^{-3}$  eV

前置詞句は文を冗長にしがちである. by means of ...  $\rightarrow$  by ... because of the fact that ...  $\rightarrow$  because ... for the purpose of ...  $\rightarrow$  for ... in the case of ...  $\rightarrow$  if ... by the use of ...  $\rightarrow$  by using ...

# (Exercise 7-5) 括弧の中にふさわしい前置詞句を書き入れよ。

Fill in the parentheses with appropriate prepositional phrases.

1.	The	rotation	of	$\boldsymbol{\mathit{E}}$	equals	minus	the	partial	derivativ	e of	В
	(						) t.				
2.	(						) tl	ne param	eter $\alpha$ , the	e modi	fied
	Hami	ilton's prin	ciple	can	be writter	n by Eq.	1.				
3.	(						) his	s theory,	Dirac was	led to	the
	conclusion that to each "normal particle," there must exist an "anti-particle" with										
	exact	ly the same	e phy	sical	propertie	es but the	oppos	site electr	ic charge.		
4.	The size of an atom is (						) 10 <sup>-10</sup> m.				
5.	The	The signal-to-noise				ratio	ha	s t	een	impro	ved
	(							) five wit	h this nev	detec	tion
	techi	nique.									
	{on	the basis	of,	base	ed on,	b	y a fac	ctor of,			
	in terms of, wi				th respect to, on the order of}						