Sandybek Kunakov

Physics of Fissioning Plasma
Energy Distributions of Fission Fragments
First Edition

Al Farabi National University

– Monograph –

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Springer

Your dedication goes here

Preface

Here come the golden words

place(s),   *First name Surname*
month year   *First name Surname*

Contents

1

Elementary processes in fissiong plasma

Your text goes here. Separate text sections with the standard LaTeX sectioning commands.

1.1 Section Heading

Your text goes here. Use the LaTeX automatism for your citations [1].

1.1.1 Subsection Heading

Your text goes here.

$$\mathbf{a} \times \mathbf{b} = \mathbf{c} \tag{1.1}$$

Subsubsection Heading

Your text goes here. Use the LaTeX automatism for cross-references as well as for your citations, see Sect. 7.1.

Paragraph Heading

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Subparagraph Heading. Your text goes here.

Table 1.1. Please write your table caption here

first	second	third
number	number	number
number	number	number

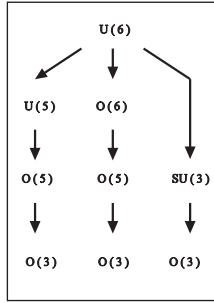**Fig. 1.1.** Please write your figure caption here

Theorem 1.1. *Theorem text goes here.*

Lemma 1.2. *Lemma text goes here.*

Problems

1.1. The problem[1] is described here. The problem is described here. The problem is described here.

1.2. Problem Heading
(a) The first part of the problem is described here.
(b) The second part of the problem is described here.

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[1] Footnote

2

Coupled Boltzmann Equations for Fissioning plasma for Kinetics Description

Your text goes here. Separate text sections with the standard LaTeX sectioning commands.

2.1 Section Heading

Your text goes here. Use the LaTeX automatism for your citations [1].

2.1.1 Subsection Heading

Your text goes here.

$$\mathbf{a} \times \mathbf{b} = \mathbf{c} \qquad (2.1)$$

Subsubsection Heading

Your text goes here. Use the LaTeX automatism for cross-references as well as for your citations, see Sect. 7.1.

Paragraph Heading

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Subparagraph Heading. Your text goes here.

Table 2.1. Please write your table caption here

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number	number	number
number	number	number

$$\partial_\mu f_j = S_j(n \to FC \to ff_j) + S_j^{ion}(ff_j(\varepsilon^{'}) \to$$
$$\to \ FC \to e + FC^+ + ff_j(\varepsilon^{'}_{\ ff} - I - \varepsilon_e)) -$$
$$-L_{ff}^{ion}(ff_j \to FC \to e + FC^+ + ff_j(\varepsilon_{ff} - I - \varepsilon_e)) +$$
$$+S_j^{el}(ff_j(\varepsilon^{'}) \to FC \to FC + ff_j(\varepsilon^{"}_{\ ff} - \triangle\varepsilon^{el}) -$$
$$-L_{ff}^{el}(ff_j \to FC \to FC + ff_j(\varepsilon_{ff} - \triangle\varepsilon^{el})) +$$
$$+S_j^{exc}(ff_j(\varepsilon^{'}) \to FC \to FC^{exc} + ff_j(\varepsilon^{"}_{\ ff} - \triangle\varepsilon^{exc})) -$$
$$-L_{ff}^{exc}(ff_j \to FC \to FC^{exc} + ff_j(\varepsilon_{ff} - \triangle\varepsilon^{exc})) -$$
$$-L_{ff}^{rec}(ff^{+N}_{\ \ j} + Ne \to ff) \tag{1}$$

$$f_{pe}(t, x_i v_i) = \sum_k^N \int_I^{E_j^0} f^k_{\ j}(t, x_i, v_i)\Omega_{j,k}^{ion}(v_j, \triangle E^k_{\ j})d(\triangle E^k_{\ j}) \tag{10}$$

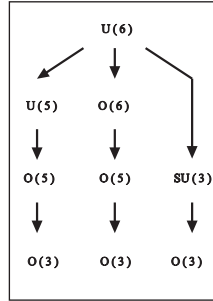**Fig. 2.1.** Please write your figure caption here

Theorem 2.1. *Theorem text goes here.*

Lemma 2.2. *Lemma text goes here.*

Problems

2.1. The problem[1] is described here. The problem is described here. The problem is described here.

2.2. Problem Heading
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(b) The second part of the problem is described here.

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[1] Footnote

3

Monte Carlo application to Fissioning Plasma Properties Description

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3.1 Section Heading

Your text goes here. Use the LaTeX automatism for your citations [1].

3.1.1 Subsection Heading

Your text goes here.

$$\mathbf{a} \times \mathbf{b} = \mathbf{c} \tag{10}$$

Subsubsection Heading

Your text goes here. Use the LaTeX automatism for cross-references as well as for your citations, see Sect. 7.1.

Paragraph Heading

Your text goes here.

Subparagraph Heading. Your text goes here.

Table 3.1. Please write your table caption here

first	second	third
number	number	number
number	number	number

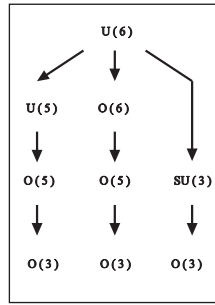**Fig. 3.1.** Please write your figure caption here

Theorem 3.1. *Theorem text goes here.*

Lemma 3.2. *Lemma text goes here.*

Problems

3.1. The problem[1] is described here. The problem is described here. The problem is described here.

3.2. Problem Heading
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(b) The second part of the problem is described here.

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[1] Footnote

4

Hydrodynamical Equations in Fissioning Plasma

Your text goes here. Separate text sections with the standard LaTeX sectioning commands.

4.1 Section Heading

Your text goes here. Use the LaTeX automatism for your citations [1].

4.1.1 Subsection Heading

Your text goes here.

$$\mathbf{a} \times \mathbf{b} = \mathbf{c} \tag{10}$$

Subsubsection Heading

Your text goes here. Use the LaTeX automatism for cross-references as well as for your citations, see Sect. 7.1.

Paragraph Heading

Your text goes here.

Subparagraph Heading. Your text goes here.

Table 4.1. Please write your table caption here

first	second	third
number	number	number
number	number	number

```
                    U(6)
              ↙       ↓       ↘
           U(5)     O(6)        ↓
            ↓        ↓          ↓
           O(5)     O(5)      SU(3)
            ↓        ↓          ↓
           O(3)     O(3)       O(3)
```
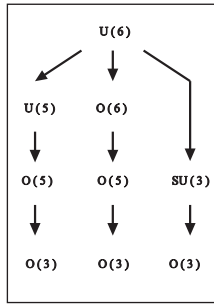
Fig. 4.1. Please write your figure caption here

Theorem 4.1. *Theorem text goes here.*

Lemma 4.2. *Lemma text goes here.*

Problems

4.1. The problem[1] is described here. The problem is described here. The problem is described here.

4.2. Problem Heading
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(b) The second part of the problem is described here.

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[1] Footnote

5

Asymptotic theory of electrostatic probe in fissioning plasma

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5.1 Section Heading

Your text goes here. Use the LaTeX automatism for your citations [1].

5.1.1 Subsection Heading

Your text goes here.

$$\mathbf{a} \times \mathbf{b} = \mathbf{c} \tag{10}$$

Subsubsection Heading

Your text goes here. Use the LaTeX automatism for cross-references as well as for your citations, see Sect. 7.1.

Paragraph Heading

Your text goes here.

Subparagraph Heading. Your text goes here.

Table 5.1. Please write your table caption here

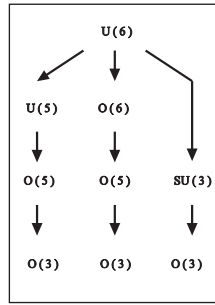| first	second	third
number	number	number
number	number	number

Fig. 5.1. Please write your figure caption here

Theorem 5.1. *Theorem text goes here.*

Lemma 5.2. *Lemma text goes here.*

Problems

5.1. The problem[1] is described here. The problem is described here. The problem is described here.

5.2. Problem Heading
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(b) The second part of the problem is described here.

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[1] Footnote

6

Absolute Measurents in Fissioning Plasma

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6.1 Section Heading

Your text goes here. Use the LaTeX automatism for your citations [1].

6.1.1 Subsection Heading

Your text goes here.

$$\mathbf{a} \times \mathbf{b} = \mathbf{c} \tag{10}$$

Subsubsection Heading

Your text goes here. Use the LaTeX automatism for cross-references as well as for your citations, see Sect. 7.1.

Paragraph Heading

Your text goes here.

Subparagraph Heading. Your text goes here.

Table 6.1. Please write your table caption here

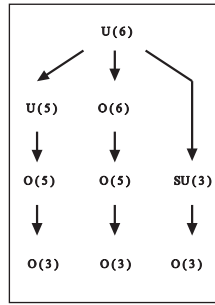| first	second	third
number	number	number
number	number	number

Fig. 6.1. Please write your figure caption here

Theorem 6.1. *Theorem text goes here.*

Lemma 6.2. *Lemma text goes here.*

Problems

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6.2. Problem Heading
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[1] Footnote

7

Thermodynamics and Statistical Physics of Fissioning Plasma

Your text goes here. Separate text sections with the standard LaTeX sectioning commands.

7.1 Section Heading

Your text goes here. Use the LaTeX automatism for your citations [1].

7.1.1 Subsection Heading

Your text goes here.

$$\mathbf{a} \times \mathbf{b} = \mathbf{c} \tag{10}$$

Subsubsection Heading

Your text goes here. Use the LaTeX automatism for cross-references as well as for your citations, see Sect. 7.1.

Paragraph Heading

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Subparagraph Heading. Your text goes here.

Table 7.1. Please write your table caption here

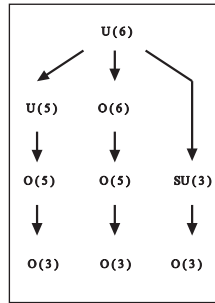| first	second	third
number	number	number
number	number	number

Fig. 7.1. Please write your figure caption here

Theorem 7.1. *Theorem text goes here.*

Lemma 7.2. *Lemma text goes here.*

Problems

7.1. The problem[1] is described here. The problem is described here. The problem is described here.

7.2. Problem Heading
(a) The first part of the problem is described here.
(b) The second part of the problem is described here.

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[1] Footnote

Solutions

Problems of Chapter ??

7.1 The solution is revealed here.

7.2 Problem Heading
(a) The solution of first part is revealed here.
(b) The solution of second part is revealed here.

References

1. Kajan E (2002) Information technology encyclopedia and acronyms. Springer, Berlin Heidelberg New York
2. Broy M (2002) Software engineering – From auxiliary to key technologies. In: Broy M, Denert E (eds) Software Pioneers. Springer, Berlin Heidelberg New York
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