**Formula Sheet**

(When quoting formulae from this sheet, write down **the** formula **and** its number)

**1. LIGHT**

 (1.1)

 (1.2)

 (1.3)

 (1.4)

 (1.5)

 (1.6)

 (1.7)

;  (1.8)

 (1.9)

 (1.10)

 (1.11)

 (1.12)

 (1.13)

 (1.14)

 (1.15)

 (1.16)

 (1.17)

**2. INTERACTION OF LIGHT AND MATTER**

 (2.1)

 (2.2)

 (2.3)

 (2.4)

 (2.5)

 (2.6)

 (2.7)

 (2.8)

 (2.9)

 (2.10)

 (2.11)

 (2.12)

 (2.13)

 (2.14)

ver: 2020\_12\_03

 (2.15)

 (2.16)

 (2.17)

 (2.18)

 (2.19)

 (2.20)

 (2.21)

  (2.22)

  (2.23)

  (2.24)

 (2.25)

**3. LASER OPERATION AND APPLICATIONS**

  (3.1)

 (3.2)

 (3.3)

 (3.4)

 (3.5)

 (3.6)

 (3.7)

**4. MATHEMATICAL FORMULAE**

 (4.1)

 (4.2)

 (4.3)

 (4.4)

 (4.5)

 (4.6)

**5. FUNDAMENTAL CONSTANTS**













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