T9 Thermodynamics	T9 kinetic theory	T9 Temperature
T9 Pressure	T9 root-mean-square speed	T9 ideal gas
T9 absolute zero	T9 Heat	T9 thermal equilibrium

T9 温度 wēn dù	T9 分子运动论 fēn zǐ yùn dòng lùn	T9 热力学 rè lì xué
T9 理想气体 lǐ xiǎng qì tǐ	T9 方均根速率 fāng jūn gēn sù lǜ	T9 压强 yā qiáng
T9 热平衡 rè píng héng	T9 热量 rè liàng	T9 绝对零度 jué duì líng dù

T9 conduction	T9 convection	T9 radiation
T9 first law	T9 internal energy	T9 isovolumetric
T9 Isobaric	T9 Isothermal	T9 Adiabatic

T9 辐射 fú shè	T9 对流 duì liú	T9 传导 chuán dǎo
T9 等容 děng róng	T9 内能 nèi néng	T9 热力学第一定律 rè lì xué dì yī dìng lǜ
T9 绝热 jué rè	T9 等温 děng wēn	T9 等压 děng yā

T9 isotherm	T9 Specific heat	T9 Thermal conductivity
T9 Entropy	T9 second law	T10 Electric charge
T10 fundamental property	T10 like charges	T10 repel

T9 热导率 rè dǎo lǜ	T9 比热容 bǐ rè róng	T9 等温线 děng wēn xiàn
T10 电荷 diàn hè	T9 热力学第二定律 rè lì xué dì èr dìng lǜ	T9 熵 shāng
T10 排斥 pái chì	T10 同种电荷 tóng zhǒng diàn hè	T10 基本属性 jī běn shǔ xìng

T10 opposite charges	T10 attract	T10 conserved
T10 quantized	T10 elementary charge	T10 point charges
T10 Coulomb's law	T10 inverse-square law	T10 permittivity

T10 守恒 shǒu héng	T10 吸引 xī yǐn	T10 异种电荷 yì zhǒng diàn hè
T10 点电荷 diǎn diàn hè	T10 元电荷 yuán diàn hè	T10 量子化 liàng zǐ huà
T10 介电常数 jiè diàn cháng shù	T10 平方反比定律 píng fāng fǎn bǐ dìng lǜ	T10 库仑定律 kù lún dìng lǜ

T10 permittivity of free space	T10 neutral	T10 conductor
T10 insulator	T10 Friction	T10 Conduction
T10 Induction	T10 grounded	T10 electric polarization

T10 导体 dǎo tǐ	T10 中性 zhōng xìng	T10 真空介电常数 zhēn kōng jiè diàn cháng shù
T10 接触起电 jiē chù qǐ diàn	T10 摩擦起电 mó cā qǐ diàn	T10 绝缘体 jué yuán tǐ
T10 极化 jí huà	T10 接地 jiē dì	T10 感应起电 gǎn yìng qǐ diàn

T10 electric field	T10 test charge	T10 Electric field lines
T10 parallel plates	T10 potential difference	T10 uniform
T10 electric potential energy	T10 Electric potential	T10 voltage

T10 电场线 diàn chǎng xiàn	T10 试探电荷 shì tàn diàn hè	T10 电场 diàn chǎng
T10 均匀的 jūn yún de	T10 电势差 diàn shì chā	T10 平行板 píng xíng bǎn
T10 电压 diàn yā	T10 电势 diàn shì	T10 电势能 diàn shì néng

T10 scalar	T10 vectors	T10 equipotential lines
T10 capacitor	T10 capacitance	T10 geometry
T10 kinetic energy	T10 electron gun	T11 Electric current

T10 等势线 děng shì xiàn	T10 矢量 shǐ liàng	T10 标量 biāo liàng
T10 几何形状 jǐ hé xíng zhuàng	T10 电容 diàn róng	T10 电容器 diàn róng qì
T11 电流 diàn liú	T10 电子枪 diàn zi qiāng	T10 动能 dòng néng

T11 amperes	T11 electromotive force	T11 circuit
T11 conductor	T11 series	T11 parallel
T11 branch	T11 circuit diagram	T11 short circuit

T11 电路 diàn lù	T11 电动势 diàn dòng shì	T11 安培 ān péi
T11 并联 bìng lián	T11 串联 chuàn lián	T11 导体 dǎo tǐ
T11 短路 duǎn lù	T11 电路图 diàn lù tú	T11 支路 zhī lù

T11 Resistance	T11 ohmic	T11 Ohm's law
T11 resistivity	T11 cross-sectional area	T11 resistor
T11 Electric power	T11 dissipate	T11 light bulb

T11 欧姆定律 ōu mǔ dìng lǜ	T11 欧姆性 ōu mǔ xìng	T11 电阻 diàn zǔ
T11 电阻器 diàn zǔ qì	T11 横截面积 héng jié miàn jī	T11 电阻率 diàn zǔ lǜ
T11 灯泡 dēng pào	T11 耗散 hào sàn	T11 电功率 diàn gōng lǜ

T11 brightness	T11 equivalent resistance	T11 internal resistance
T11 junction	T11 ammeter	T11 voltmeter
T11 potential difference	T11 nonideal	T11 Kirchhoff's loop rule

T11

内阻

nèi zǔ

T11

等效电阻

děng xiào diàn zǔ

T11

亮度

liàng dù

T11

电压表

diàn yā biǎo

T11

电流表

diàn liú biǎo

T11

节点

jié diǎn

T11

基尔霍夫电压定律

jī ěr huò fū diàn yā dìng lǜ

T11

非理想

fēi lǐ xiǎng

T11

电势差

diàn shì chā

T11 Kirchhoff's junction rule	T11 capacitor	T11 time constant
T11 RC circuit	T12 Ferromagnetic	T12 magnetic domains
T12 permanent magnets	T12 Paramagnetic	T12 Diamagnetic

T11 时间常数 shí jiān cháng shù	T11 电容器 diàn róng qì	T11 基尔霍夫电流定律 jī ěr huò fū diàn liú dìng lǜ
T12 磁畴 cí chóu	T12 铁磁性 tiě cí xìng	T11 RC 电路 RC diàn lù
T12 抗磁性 kàng cí xìng	T12 顺磁性 shùn cí xìng	T12 永磁体 yǒng cí tǐ

T12 permeability	T12 permeability of free space	T12 magnetic field
T12 Magnetic field lines	T12 north pole	T12 south pole
T12 pole	T12 magnetic dipole	T12 magnetic force

T12 磁场 cí chǎng	T12 真空磁导率 zhēn kōng cí dǎo lǜ	T12 磁导率 cí dǎo lǜ
T12 南极 nán jí	T12 北极 běi jí	T12 磁感线 cí gǎn xiàn
T12 磁力 cí lì	T12 磁偶极子 cí ǒu jí zi	T12 磁极 cí jí

T12 perpendicular	T12 right-hand rule	T12 uniform magnetic field
T12 stationary	T12 parallel	T12 centripetal force
T12 mass spectrometers	T12 current-carrying wire	T12 solenoid

T12 匀强磁场 yún qiáng cí chǎng	T12 右手定则 yòu shǒu dìng zé	T12 垂直 chuí zhí
T12 向心力 xiàng xīn lì	T12 平行 píng xíng	T12 静止的 jìng zhǐ de
T12 螺线管 luó xiàn guǎn	T12 载流导线 zài liú dǎo xiàn	T12 质谱仪 zhì pǔ yí

T12 bar magnet	T12 electromagnets	T12 motors
T12 compass	T12 flux linkage	T12 emf
T12 electromagnetic induction	T12 magnetic flux	T12 normal

T12 电动机 diàn dòng jī	T12 电磁铁 diàn cí tiě	T12 条形磁铁 tiáo xíng cí tiě
T12 电动势 diàn dòng shì	T12 磁链 cí liàn	T12 指南针 zhǐ nán zhēn
T12 法线 fǎ xiàn	T12 磁通量 cí tōng liàng	T12 电磁感应 diàn cí gǎn yìng

T12 Faraday's law	T12 induced emf	T12 Lenz's law
T12 induced current	T12 generators	T12 transformers
T12 conducting rod	T12 motional emf	T12 resistor

T12 楞次定律 léng cì dìng lǜ	T12 感应电动势 gǎn yìng diàn dòng shì	T12 法拉第定律 fǎ lā dì dìng lǜ
T12 变压器 biàn yā qì	T12 发电机 fā diàn jī	T12 感应电流 gǎn yìng diàn liú
T12 电阻器 diàn zǔ qì	T12 动生电动势 dòng shēng diàn dòng shì	T12 导体棒 dǎo tǐ bàng

T13 magnifying glass	T13 Geometric optics	T13 law of reflection
T13 angle of incidence	T13 angle of reflection	T13 normal
T13 wavefront	T13 specular reflection	T13 diffuse reflection

T13 反射定律 fǎn shè dìng lǜ	T13 几何光学 jǐ hé guāng xué	T13 放大镜 fàng dà jìng
T13 法线 fǎ xiàn	T13 反射角 fǎn shè jiǎo	T13 入射角 rù shè jiǎo
T13 漫反射 màn fǎn shè	T13 镜面反射 jìng miàn fǎn shè	T13 波前 bō qián

T13 plane mirror	T13 principal axis	T13 spherical mirror
T13 focal point	T13 mirror equation	T13 concave mirror
T13 real image	T13 inverted	T13 convex mirror

T13

球面镜

qiú miàn jìng

T13

主光轴

zhǔ guāng zhóu

T13

平面镜

píng miàn jìng

T13

凹面镜

āo miàn jìng

T13

面镜公式

miàn jìng gōng shì

T13

焦点

jiāo diǎn

T13

凸面镜

tū miàn jìng

T13

倒立

dào lì

T13

实像

shí xiàng

T13 virtual image	T13 upright	T13 magnification
T13 centre of curvature	T13 sign convention	T13 refraction
T13 index of refraction	T13 Snell's law	T13 medium

T13 放大率 fàng dà lǜ	T13 正立 zhèng lì	T13 虚像 xū xiàng
T13 折射 zhé shè	T13 符号规则 fú hào guī zé	T13 曲率中心 qū lǜ zhōng xīn
T13 介质 jiè zhì	T13 斯涅尔定律 sī niè ěr dìng lǜ	T13 折射率 zhé shè lǜ

T13 critical angle	T13 total internal reflection	T13 optical fibre
T13 wavelength	T13 frequency	T13 lens
T13 thin-lens equation	T13 converging	T13 diverging

T13 光纤 guāng xiān	T13 全反射 quán fǎn shè	T13 临界角 lín jiè jiǎo
T13 透镜 tòu jìng	T13 频率 pín lǜ	T13 波长 bō cháng
T13 发散 fā sàn	T13 会聚 huì jù	T13 薄透镜方程 bó tòu jìng fāng chéng

T13 ray diagram	T13 undeviated	T13 focal length
T14 wave	T14 Transverse	T14 Longitudinal
T14 wave pulse	T14 mechanical wave	T14 linear mass density

T13 焦距 jiāo jù	T13 不偏折 bù piān zhé	T13 光路图 guāng lù tú
T14 纵波 zòng bō	T14 横波 héng bō	T14 波 bō
T14 线密度 xiàn mì dù	T14 机械波 jī xiè bō	T14 波脉冲 bō mài chōng

T14 compression	T14 rarefaction	T14 wavelength
T14 frequency	T14 amplitude	T14 wave speed
T14 pitch	T14 Polarization	T14 intensity

T14 波长 bō cháng	T14 疏部 shū bù	T14 密部 mì bù
T14 波速 bō sù	T14 振幅 zhèn fú	T14 频率 pín lǜ
T14 强度 qiáng dù	T14 偏振 piān zhèn	T14 音调 yīn diào

T14 Electromagnetic waves	T14 plane wave	T14 Doppler effect
T14 superposition	T14 Constructive interference	T14 destructive interference
T14 standing wave	T14 nodes	T14 antinodes

T14 多普勒效应 duō pǔ lè xiào yìng	T14 平面波 píng miàn bō	T14 电磁波 diàn cí bō
T14 相消干涉 xiāng xiāo gān shè	T14 相长干涉 xiāng zhǎng gān shè	T14 叠加 dié jiā
T14 波腹 bō fù	T14 波节 bō jié	T14 驻波 zhù bō

T14 harmonic	T14 beats	T14 beat frequency
T14 Diffraction	T14 Coherent	T14 diffraction grating
T14 thin film	T14 antireflection coating	T15 quanta

T14 拍频 pāi pín	T14 拍 pāi	T14 谐波 xié bō
T14 衍射光栅 yǎn shè guāng shān	T14 相干 xiāng gān	T14 衍射 yǎn shè
T15 量子 liàng zǐ	T14 增透膜 zēng tòu mó	T14 薄膜 bó mó

T15 photons	T15 Wave–particle duality	T15 double-slit experiment
T15 de Broglie wavelength	T15 quantized	T15 nucleon
T15 isotope	T15 ion	T15 Bohr model

T15 双缝实验 shuāng fèng shí yàn	T15 波粒二象性 bō lì èr xiàng xìng	T15 光子 guāng zǐ
T15 核子 hé zǐ	T15 量子化 liàng zǐ huà	T15 德布罗意波长 dé bù luó yì bō cháng
T15 玻尔模型 bō ěr mó xíng	T15 离子 lí zǐ	T15 同位素 tóng wèi sù

T15 energy levels	T15 emission spectrum	T15 absorption spectrum
T15 ground state	T15 excited state	T15 ionization energy
T15 blackbody	T15 Wien's law	T15 Stefan–Boltzmann law

T15

吸收光谱

xī shōu guāng pǔ

T15

发射光谱

fā shè guāng pǔ

T15

能级

néng jí

T15

电离能

diàn lí néng

T15

激发态

jī fā tài

T15

基态

jī tài

T15

斯特藩-玻尔兹曼定律

sī tè fān - bō ěr zī màn dìng lǜ

T15

维恩定律

wéi ēn dìng lǜ

T15

黑体

hēi tǐ

T15 photoelectric effect	T15 work function	T15 threshold frequency
T15 stopping potential	T15 Compton scattering	T15 nucleus
T15 Fission	T15 Fusion	T15 strong force

T15 截止频率 jié zhǐ pín lǜ	T15 逸出功 yì chū gōng	T15 光电效应 guāng diàn xiào yìng
T15 原子核 yuán zǐ hé	T15 康普顿散射 kāng pǔ dùn sǎn shè	T15 遏止电压 è zhǐ diàn yā
T15 强相互作用 qiáng xiāng hù zuò yòng	T15 聚变 jù biàn	T15 裂变 liè biàn

T15 radioactive decay	T15 Alpha decay	T15 Beta decay
T15 antineutrino	T15 positron	T15 neutrino
T15 Gamma decay	T15 half-life	T15 lepton number

T15

贝塔衰变

bèi tǎ shuāi biàn

T15

阿尔法衰变

ā ěr fǎ shuāi biàn

T15

放射性衰变

fàng shè xìng shuāi biàn

T15

中微子

zhōng wēi zǐ

T15

正电子

zhèng diàn zǐ

T15

反中微子

fǎn zhōng wēi zǐ

T15

轻子数

qīng zǐ shù

T15

半衰期

bàn shuāi qī

T15

伽马衰变

gā mǎ shuāi biàn

T15 decay constant		

		T15 衰变常数 shuāi biàn cháng shù