

Measuring
e/m ratio of
electron

Photoelectric effect

Interference & diffraction

Experiment with
spectrometer

1984
a A&P INSTRUMENT®
科藝儀器

× BroLight

CRT
Experiment

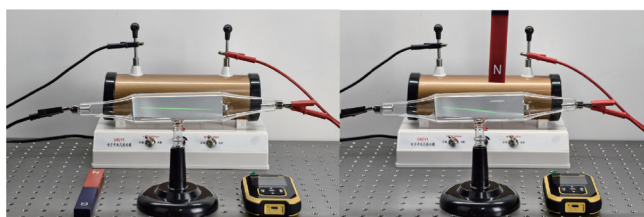
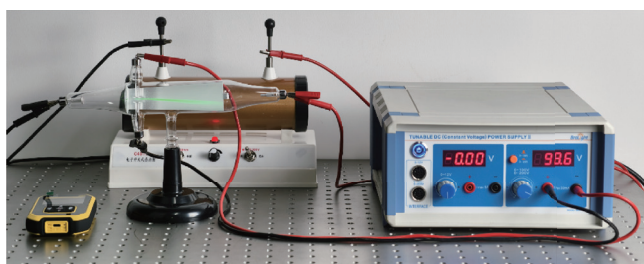
CRT Experiment

Experiment
with spectrometer

Quantum Physics Experiment

Diffraction of Electrons

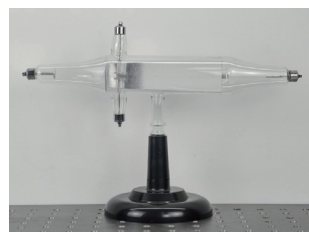
CRT Experiment BEX-9106



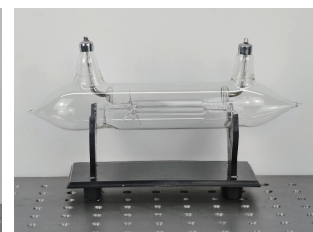
Electron path tube



Maltese cross tube



Electrostatic deflection tube



Mechanical effect tube

Model	Content	Quantity
SEM-2401	Electron Path CRT 示直进阴极射线管	1
SEM-2402	Maltese Cross CRT 示磁效应阴极射线管	1
SEM-2403	Electrostatic Deflection CRT 示静电效应阴极射线管	1
SEM-2404	Mechanical Effect CRT 示机械效应阴极射线管	1
SEM-2007	CRT Power Supply 阴极射线管电源	1
SEM-2008	Magnet 磁铁	1
SEM-2009	Radiometer 辐射计	1
BEM-5002	Tunable DC Power Supply,12V/100V/200V	1

Experiment

1. CRT to show electron path
2. CRT to show deflection in magnetic field
3. CRT to show deflection in electric field
4. CRT to show mechanical motion

Diffraction of electrons BEX-8506

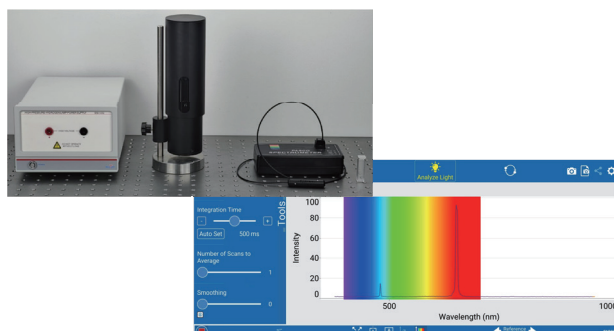


Model	Content	Quantity
BEM-5058	High Voltage Power Supply 6kV 高压电源	1
BEM-5210	Electron Diffraction Tube Holder 电子衍射管座	1
SEM-5401	Electron Diffraction Tube 电子衍射管	1

Experiment

Electrons are accelerated by high voltage and diffracted when pass through graphite target; Alternative bright rings and dark rings are shown on the fluorescent screen; Put a magnet near the tube can deflect the electron beam.

Experiment with spectrometer BEX-9107

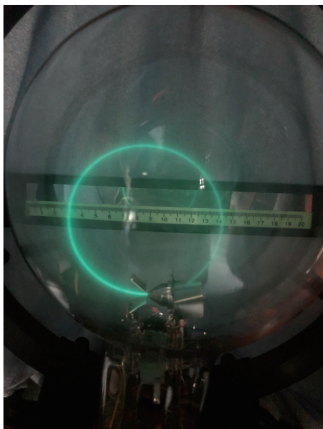


Model	Content	Quantity
BIM-6252	Hydrogen lamp with Power Supply 氢灯光源	1
PS-2600A	Wireless Spectrometer 无线光谱仪	1
PS-2601	Fiber Optic Cable 测量光纤	1

Experiment

1. Observe the LED spectrum
2. Observe the Solar spectrum
3. Measure Balmer series of Hydrogen lamp
4. Measure absorption spectrum
5. Measure fluorescence spectrum

Measuring e/m ratio of electron BEX-8503



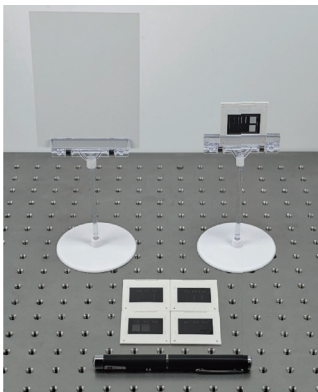
Model	Content	Quantity
BEM-5002	Tunable DC Power Supply,12V/100V/200V 可调电源 ,12V/100V/200V	1
BEM-5003	Tunable DC(Constant Current) Power Supply 3.5A/6.3V 可调恒流源 , 0-3.5A	1
BEM-5703	e/m Tube for Electron Charge-to-Mass Ratio System 电子束发射管	1
BEM-5017	e/m Base, includes Helmholtz Coils, Mirrored Scale 电子荷质比基座	1



Experiment

1. Observe the trajectory of the electron beam in a magnetic field
2. Calculate the electron charge-to-mass ratio

Interference & diffraction SEX-9102

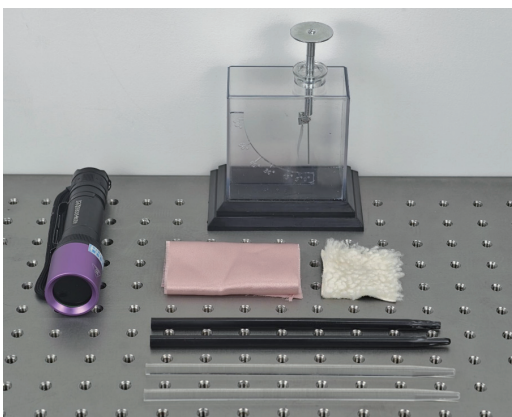


Model	Content	Quantity
SEM-2223	Slit kits 狭缝组件	1
SEM-2406	Pen Laser 红光激光器	1
SEM-2224	Whiteboard 白板	1

Experiment

1. Observe interference phenomenon
2. Observe diffraction phenomenon

Photoelectric effect SEX-9101



Model	Content	Quantity
SEM-2010	Electroscope 验电器	1
SEM-2222	Friction Attachment 摩擦组件	1
SEM-2405	UV Light source 紫外光源	1

Experiment

1. Observe the static electricity generated by rubbing different materials
2. Observe the photoelectric effect based on UV light source

a A&P INSTRUMENT CO., LTD.
科藝儀器有限公司

Tony Chan 陳啟

Product Manager - EDU

Address: Room 68, 1/F Sino Industrial Plaza,
9 Kai Cheung Road, Kowloon Bay, Kowloon

Tel: (852) 27556578 / 94472071 E-mail: tony.chan@anp.com.hk

Fax: (852) 27554549 <http://www.anp.com.hk/>

— Specifications subject to change without notice, Consult Brolight for the latest specification changes or any additional assistance. —