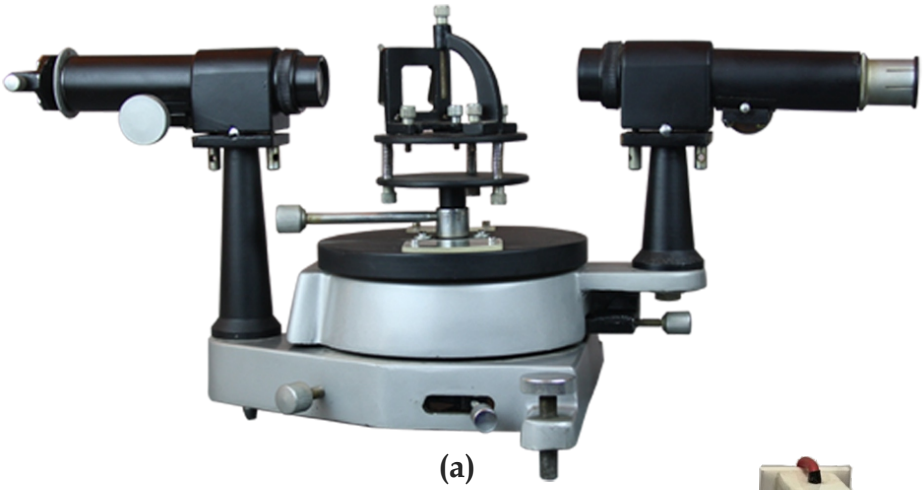
HYDROGEN SPECTRUM AND RYDBERG CONSTANT

Model : HS-0601/018

Experiment(s):

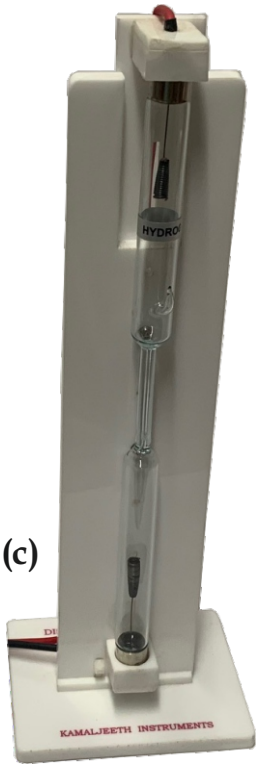
1. Determination of Rydberg constant

(For more details, procedure & manual visit: www.kamaljeeth.net)



(a)

(b)



(c)

Reference : Lab Experiments Journal vol-5, No.3, Page-239

Experiment Setup Consists:

a) Spectrometer
b) Diffraction Grating
c) Hydrogen Discharge Tube and Power Supply

Specifications:

a) Spectrometer:
Scale: 6" diameter (Brass)
Base: Cast Iron with levelling screw
All moving parts made of Brass for accuracy
Collimator with adjustable slit
Horizontal axis alignment for collimator: Yes
Horizontal axis alignment for telescope: Yes
Centre Table: Height adjustable with provision for Prism and grating holder
Telescope with user changeable cross wire and eyepiece

b) Diffraction Grating:
Grating Constant: 15000 Lines/Inch
Window size: 40mm x 30mm

c) Discharge Tube Power Supply:
High voltage power supply variable from 0-5 KV
Input: Mains operated 220V, 50Hz or 110V, 60Hz
Suitable for other discharge tubes
Discharge Tube: Hydrogen filled (Qty: 2 Nos)
Stand: Height Adjustable to accommodate all Kamaljeeth make discharge tubes

KAMALJEETH INSTRUMENTS
An ISO 9001:2008 Certified Company

Address: No. 610, 5th main, 8th cross Tatanagar, Bangalore 560 092
Website: **www.kamaljeeth.net**, Email: labexperiments@kamaljeeth.net

3 Years manufacture's warranty

30 Years of innovative manufacturing