

# Data:

## Experiment 6: The Atomic Spectrum of Hydrogen

### 1. Calculate the Values of the Energy Levels of the Hydrogen Atom

| n | Energy, $E_n$                     | n | Energy, $E_n$                     |
|---|-----------------------------------|---|-----------------------------------|
| 1 | $-2.18 \times 10^{-18} \text{ J}$ | 4 | $-1.36 \times 10^{-19} \text{ J}$ |
| 2 | $-5.45 \times 10^{-19} \text{ J}$ | 5 | $-8.72 \times 10^{-20} \text{ J}$ |
| 3 | $-2.42 \times 10^{-19} \text{ J}$ | 6 | $-6.05 \times 10^{-20} \text{ J}$ |

### 2. Calculation of the Wavelengths of the Lines in the Hydrogen Spectrum

In the upper half of each box write the difference in energy between  $E_{\text{obs}}$  and  $E_{\text{ref}}$ . In the lower half of the box write the wavelength associated with that value.

| $n_{\text{hi}} \downarrow$<br>$n_{\text{lo}} \rightarrow$ | 6                                            | 5                                            | 4                                           | 3                                          | 2                                          |
|-----------------------------------------------------------|----------------------------------------------|----------------------------------------------|---------------------------------------------|--------------------------------------------|--------------------------------------------|
| 1                                                         | $2.12 \times 10^{-17} \text{ J}$<br>94.6 nm  | $2.09 \times 10^{-17} \text{ J}$<br>95.0 nm  | $2.04 \times 10^{-18} \text{ J}$<br>97.3 nm | $1.94 \times 10^{-19} \text{ J}$<br>103 nm | $1.63 \times 10^{-19} \text{ J}$<br>122 nm |
| 2                                                         | $4.845 \times 10^{-19} \text{ J}$<br>411 nm  | $4.578 \times 10^{-19} \text{ J}$<br>434 nm  | $4.09 \times 10^{-19} \text{ J}$<br>486 nm  | $3.03 \times 10^{-20} \text{ J}$<br>656 nm |                                            |
| 3                                                         | $1.815 \times 10^{-19} \text{ J}$<br>1095 nm | $1.548 \times 10^{-19} \text{ J}$<br>1282 nm | $1.06 \times 10^{-19} \text{ J}$<br>1875 nm |                                            |                                            |
| 4                                                         | $7.55 \times 10^{-20} \text{ J}$<br>2633 nm  | $4.88 \times 10^{-20} \text{ J}$<br>4073 nm  |                                             |                                            |                                            |
| 5                                                         | $2.67 \times 10^{-20} \text{ J}$<br>7445 nm  |                                              |                                             |                                            |                                            |

### 3. Assignment of Lines in the Hydrogen Spectrum

# Atomic Spectrum Of Hydrogen Lab Answers

**United States. Air Force. Office of  
Aerospace Research**



## Atomic Spectrum Of Hydrogen Lab Answers:

Spectroscopy: The Key to the Stars Keith Robinson, 2007-08-15 While most amateur astronomers know about the red shift have a general idea of the way that the emission and absorption lines in stellar spectra provide an insight into the atomic processes of the star it is unusual to find someone who has any kind of detailed knowledge The reason isn't lack of interest far from it but is because all the books currently available are pitched at professional astronomers and degree students and are to say the least difficult to read This is the first non technical book on this subject written specifically for practical amateur astronomers It includes all the science necessary for a qualitative understanding of stellar spectra but avoids a mathematical treatment which would alienate many of its intended readers Any amateur astronomer who carries out or who is interested in observational spectroscopy and who wants a non technical account of the physical processes which determine the intensity and profile morphology of lines in stellar spectra will find this is the only book written specially for him And of course armchair astronomers who simply want to understand the physical processes which shape lines in stellar spectra will find this book equally fascinating

**Technical Report - Jet Propulsion Laboratory, California Institute of Technology**

Jet Propulsion Laboratory (U.S.), 1963

**Scientific and Technical Aerospace Reports**, 1991-03

Technical Abstract

Bulletin, 1964

Energy Research Abstracts, 1992-02

**Nuclear Science Abstracts**, 1975-05

**Physics Laboratory**

**Experiments** Jerry D. Wilson, 1994

Subject Index to Unclassified ASTIA Documents Defense Documentation Center

(U.S.), 1960

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