

Lab 5: Blackbody Curves & UBV Filters – Worksheet

Background Material

Thoroughly review the "Spectra" and "Filters" background pages. The color index page may also be helpful to review.

Enter your answers to each question in the data tables and yellow highlighted areas below. When completed, please save and upload this file to the assignment submission link in Canvas.

Filters Simulator Overview

The filters simulator allows one to observe light from various sources passing through multiple filters and the resulting light that passes through to some detector. An "optical bench" shows the source, slots for filters, and the detected light. The wavelengths of light involved range from 380 nm to 825 nm which more than encompass the range of wavelengths detected by the human eye.

The upper half of the simulator graphically displays the source-filter-detector process. A graph of intensity versus wavelength for the source is shown in the leftmost graph. The middle graph displays the combined filter transmittance – the percentage of light the filters allow to pass for each wavelength. The rightmost graph displays a graph of intensity versus wavelength for the light that actually gets through the filter and could travel on to some detector such as your eye or a CCD. Color swatches at the far left and right demonstrate the effective color of the source and detector profile respectively.

The lower portion of the simulator contains tools for controlling both the light source and the filter transmittance.

- In the source panel perform the following actions to gain familiarity.
 - Create an **blackbody** source distribution – the spectrum produced by a light bulb which is a continuous spectrum. Practice using the **temperature** and **peak height** controls to control the source spectrum.
 - Create a **bell-shaped** spectrum. This distribution is symmetric about a peak wavelength. Practice using the **peak wavelength**, **spread**, and **peak height** controls to vary the source spectrum.
 - Practice creating **piecewise linear** sources. In this mode the user has complete control over the shape of the spectrum as control points can be dragged to any value of intensity.
 - Additional control points are created whenever a piecewise segment is clicked at that location.
 - Control points may be deleted by holding down the Delete key and clicking them.
 - Control points can be dragged to any location as long as they don't pass the wavelength value of another control point.

Naap Blackbody Curves Ubv Filters Answers

AN Whitehead



Naap Blackbody Curves Ubv Filters Answers:

Reviewing **Naap Blackbody Curves Ubv Filters Answers**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Naap Blackbody Curves Ubv Filters Answers**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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Naap Blackbody Curves Ubv Filters Answers Introduction

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