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HIP 88794

# HIP 88794

A light for our story



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A story among the stars

Celestial Library edition



*Every light holds a story. These pages  
follow its journey, from the heart of the  
star to the sky we share.*

The sky, page by page

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CONTENTS

# A story beneath the stars

|                                              |    |
|----------------------------------------------|----|
| One light among many                         | 4  |
| The colour of its fire                       | 5  |
| The journey ending here                      | 6  |
| A landscape for imagination                  | 7  |
| Infrared spectra traced a nearly steady disk | 8  |
| The balance of a life                        | 9  |
| Measuring with two glances                   | 10 |
| Nothing stands still                         | 11 |
| The night of finding it                      | 12 |
| Somewhere to return                          | 13 |

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# One light among many

Some nights begin when we stop hurrying. The day withdraws, our eyes learn the darkness and, little by little, the stars appear. Among them is HIP 88794. Until now it may have been another distant light; pausing to look is the beginning of giving it a place in our own story.

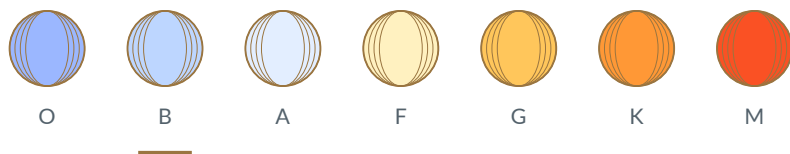
A dedication begins with that simple gesture: choosing something beautiful and wanting to share it. The star will continue on its way, beyond our calendars, while here below its light can accompany a date, a name or words we wish to keep. Immensity takes on an intimate measure: the measure of what matters to us.

# The colour of its fire

The light of HIP 88794 has a character of its own. The B family carries the blue tint of hot surfaces in its light. Imagine a clear radiance, like the first brightness over snow. Its beauty comes from the same matter that, under other conditions, can kindle an amber-coloured star.

To the unaided eye, a stellar colour can be little more than a whisper. The atmosphere makes it tremble and our eyes receive it in their own way. Beyond that point we can imagine a living surface of hot matter: the visible beauty of processes working on a scale far greater than ours.

## SEVEN FAMILIES OF LIGHT



*Light keeps the colours of its origin.*

# The journey ending here

The light of HIP 88794 crosses approximately 347.3 light-years to reach us. The brightness we receive has therefore spent about 347.3 years on its way. Distance becomes time: looking at this star means meeting light that began travelling before this moment. When it set out, the Sun and its planets already shared a history billions of years old. On their scale, this journey is barely a breath.

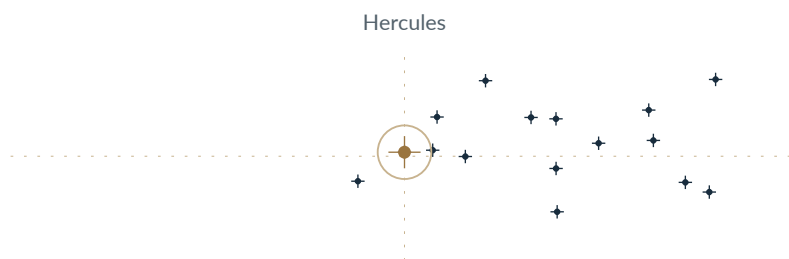
Its light has crossed the time of several generations. We can imagine hands writing letters, lit windows and voices that now live only in other voices. Through all that passing on, the brightness kept travelling; tonight it reaches us.



# A landscape for imagination

HIP 88794 lies in the region of Hercules. Hercules lets us think of the strength needed to persevere. There is also a quiet strength in caring, waiting and returning, small gestures beneath an immense night.

Figures in the sky are a human way of approaching immensity. In our gaze they join lights that may lie at very different distances. Imagination stretches the thread; the stars provide the brightness. A single landscape can therefore keep old images while receiving a story that begins tonight.



*Its light, among other lights of the constellation.*

# Infrared spectra traced a nearly steady disk

In a 2017 report, Beatriz Sabogal and her collaborators included  $\alpha$  Herculis, or HIP 88794, in a seven-star study of circumstellar disks. They obtained new L-band infrared spectra with the CID-InSb spectrograph on the 2.1-m telescope at Mexico's OAN/UNAM San Pedro Mártir Observatory. By comparing hydrogen-line flux ratios, the team placed  $\alpha$  Her among stars with optically thin disks that had remained almost stable in the available record.

A little light, patiently unfolded, had become a page rich enough to read. We can imagine each faint mark as part of a letter sent across the dark, arriving without sound and asking only for attention. The instruments reveal its detail; the evening gives it another meaning. Finding the star again can feel like opening a familiar letter whose distance has never diminished its welcome.

# The balance of a life

During the main sequence, hydrogen fusion sustains the great conversation between gravity and pressure. Gravity gathers; the hot interior answers. From that balance comes light able to accompany entire ages. We can imagine a life written slowly, while matter at its centre transforms part of itself into energy.

To approach HIP 88794, we can let that scale widen our imagination. A stellar age is unlike a birthday: it speaks of changing matter, of energy finding a way out, of a balance sustained and transformed. Tonight's light is one page of that time, and we happen to be here to receive it.

# Measuring with two glances

To begin measuring a stellar distance, Earth offers us a movement. We observe from one side of its orbit and look again about six months later from the other. A nearby star seems to shift slightly against more distant ones. That small change of perspective is called parallax.

We can feel the principle by looking at a finger with one eye and then the other. What fits between two glances at home requires our planet's journey in the sky. There is something beautiful in that patience: to learn how far a light is from us, we first learned to look from somewhere else.



# Nothing stands still

Although it seems still, HIP 88794 belongs to a moving sky. Stars travel through the galaxy and our own home moves with the Sun. The distances are so great that many of these changes need years of observation to become visible. The serenity we see is really keeping a journey.

We can imagine every night as a meeting between travellers. We arrive with one more day of memories; the star arrives with its light and its path. The meeting seems to repeat, yet it is never quite the same. Perhaps that is why looking again can be such a simple way to celebrate shared time.

# The night of finding it

We can begin with something simple: looking into a starry sky and letting our eyes grow used to darkness. The dedication page lets us choose a place and time to find where to look. Recognising the constellation first turns a distant map into a familiar landscape.

If a telescope joins the evening, a wide field is a gentle beginning. As a reference, a 114 mm Newtonian with a 500 mm focal length gives 20× with a 25 mm eyepiece. The star remains a point of light; the instrument gathers more of its brightness. The best memory may be the moment we leave the eyepiece and say: there it is.

# Somewhere to return

We can close this booklet and let HIP 88794 become a small light in an enormous night again. Something, though, will have changed. We now know part of its journey, a shade of its colour and a way to find it. What seemed far away has a place in our memory.

There will be clear nights and others when clouds keep the sky. Not every night will allow observing, but each can bring back the memory of this gesture. Sometimes a name is enough to return to a date, a voice, a few shared words. And when the light appears again, we will have one more reason to pause and look.

# The traces of this story

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[https://vizier.cds.unistra.fr/viz-bin/VizieR-5?-source=I/239/hip\\_main&HIP=88794](https://vizier.cds.unistra.fr/viz-bin/VizieR-5?-source=I/239/hip_main&HIP=88794)

NASA · Our Sun

<https://science.nasa.gov/sun/facts/>

IAU · Constellations and their names

<https://iauarchive.eso.org/public/themes/constellations/>

Celestron · Choosing eyepieces

<https://www.celestron.com/blogs/knowledgebase/how-to-determine-which-eyepieces-to-use-with-your-telescope>

Original ISDORA prose and illustrations. Images are artistic evocations or diagrams, not to scale. Distances are approximate. Constellation figures include contemporary literary readings.

# To keep discovering

NASA · The lives of stars

<https://science.nasa.gov/universe/stars/>

NASA · What is a light-year?

<https://science.nasa.gov/exoplanets/what-is-a-light-year/>

ESA · Measuring stellar distances by parallax

[https://www.esa.int/ESA\\_Multimedia/Images/2013/06/Measuring\\_stellar\\_distances\\_by\\_parallax](https://www.esa.int/ESA_Multimedia/Images/2013/06/Measuring_stellar_distances_by_parallax)

B. E. Sabogal et al. (2017), “Dissipation of circumstellar disks of Be stars,” *Revista Mexicana de Astronomía y Astrofísica, Serie de Conferencias* 49, 167.

<https://adsabs.harvard.edu/abs/2017RMxAC..49..167S/abstract>



May there always be a night  
to look again.



*HIP 88794*

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A STORY OF LIGHT