

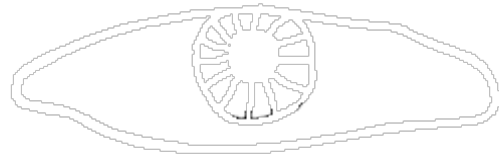
White Eyes

parts & lyrics

intro

Aha aha aha aha

We've seen white eyes – in the darkness
We've seen all the magic lights – in the distance



main 1

I still remember exactly how you moved your head back and forth
and how your gaze wandered upwards, because it wasn't evident for you.

Because you didn't believe it.
I remember all the doubts – and all options we thought of

chorus 1

We've seen white eyes – in the darkness
We've seen all the magic lights – in the distance

We've seen so many puzzles
Dark matter, dark energy – and a myriad of mysteries

The holy grail of the universe – in the hubble-maths

1

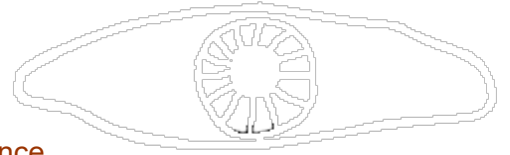
main 2

I still remember the feeling of exhilaration
We thought we would achieve – if we actually reached this goal

I can still see the wrinkles on your forehead today

chorus 2

We've seen white eyes – in the darkness
We've seen all the magic lights – in the distance



We've seen so many puzzles
Dark matter, dark energy – and a myriad of mysteries

Is the holy grail the apple in the Garden of Eden?

interlude

And will we die
in the middle of the process?
Will we die?

Aha aha aha aha – aha aha aha aha

In the hubble-maths – maths – maths ¹

chorus 3

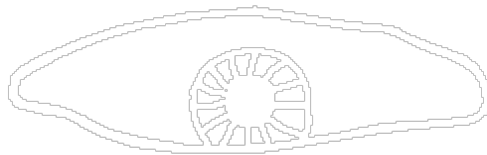
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We've seen so many puzzles
Dark matter, dark energy – and a myriad of mysteries

... in the hubble-maths ¹

We've seen white eyes – in the darkness
We've seen all the magic lights – in the distance

We've seen white eyes



e-guitars, e-bass: tanja soler
zang; vocals, drums, percs,
strings: andy enroe

music & lyrics: andy enroe

composed + recorded: 2023

mixed + mastered: 2024

1

in the hubble-maths ...

The "hubble-maths" (= the **hubble-mathematics**) tell us the dependencies and causalities in our current cosmology. Cosmology deals with the origin and the development of the universe. And this song is about the fate of our universe: Will the universe expand extraordinarily – over all borders? Or will it contract in the end? Or will it maybe stay in an equilibrium?

Well, in order to answer this question we need to measure the **hubble-parameter H**. The hubble-parameter is defined as ratio of speed and distance. It tells us what speed galaxies in a certain distance have:

$$H = \frac{\text{speed of galaxies}}{\text{distance}}$$

But there is a **striking peculiarity**: The measurements of H are different – and we don't know why!

1. Direct measuring of the red shift results in: \longrightarrow 73 km/s per Megaparsec
2. Elaborating the "Cosmic Microwave Background" of the Planck Satellite gives: \longrightarrow 67 km/s per Megaparsec

Because of this **discrepancy** we cannot say if the universe is "open", "flat" or "closed".

If it is infinite or finite.

This **discrepancy** of the results for H still is a puzzle. We don't know where it comes from. It is annoying because the exact knowledge of the **hubble-parameter** is very important.

