

## LET'S KNOW A STAR!

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The stars' secrets are hidden in the light that arrives to us, to know this secret is like to study her composition. The spectroscopy studies about this aspect. My idea is a trial to give some answers to whom wants to understand a part of spectroscopy with a simple astronomical telescope.

I want to give life to this project with the description of the instruments that I use and the study of the light of Syrio.

After the deepening of the teory, the funnier part, or better more practical part begins. In fact I'll try, with some instruments that I have in laboratory, to make a simple spectroscope to study Sirio. I used a telescope, I made a "box" in which there is my reticulum, made by a piece of DVD that through the fissure on the telescope reflects the spectrum that is issued. The reflected figure is caught by a webcam and then it is transmitted to the computer to study it.

This experiment requires some patience because the precision of the instrument is limited, but it is very interesting and fascinating too.

This type of equipment enables us to see only the spectrum of the sun while the spectum of Sirio, the one of Rygel and the other one of Betelgeuse are acquired by a ccd specific, this ccd is in black and white. For this reason I can only compare one to the others. I think that this way isn't finished but it leaves space to improvement.