



HYPERTELESCOPE

Kickstarter campaign 2016

A giant step toward the Stars

The Hypertelescope is a project for a giant telescope that uses interferometry using the methods invented and developed by Antoine Labeyrie.

Its revolutionary concept will make it possible to overcome the size limits of a classic telescope whereby allowing visualisation of space events never seen before.

Scientific objectives for 2016

- To finalise the actual work co-spherizing the mirrors by using lasers which meet on the optical gondola at a height of 100 meter and reflect to a telescope which is fixed on the ground.
- To pilot the exact movement, measured in millimetres, of the optical gondola in order to be able to follow the shift of the main star Vega in the Lyre constellation.
- To equip the optical gondola with a visual camera to capture pictures of the stars
- To take pictures of the interference of the star light concentrated from the two mirrors.
- First flight tests of the self-carrying gondola drone to host the optics and a camera.

From Project to crowdfunding

Since the beginning, the project to build a Hypertelescope has been subsidized by the "Observatoire de la Côte d'Azur" and the "Collège de France".

In the year 2014, professor Labeyrie had to retire of his teaching activity which meant that the "Collège de France" had to stop financial support for the project.

At that time, the association [Hypertelescope LISE](#) was created to help with the financing and give the project new logistic and human impetus.

In the spirit of science for all, many researchers, students as well as amateur astronomers have joined the team and worked intensively on the development and installation of the prototype of the real size Hypertelescope in the Alp valley of Haute Provence.

Although the project made very good progress, many material and technical limits need to be overcome explaining the need for additional resources, research and inventiveness.

The financial equilibrium of the project depends entirely on the generosity of the donors and of the members of the association - It is a very limited budget.

For this reason and to guarantee the annual financing of the scientific project, the association has put in place a crowdfunding initiative using the Kickstarter platform.

Participate in the development of the largest telescope in the world

The association Hypertelescope LISE - laboratory for stellar and exoplanetary interferometry - is an international, non-profit organisation for scientists as well as amateurs. The association works actively to support the development of the project of a giant telescope through interferometry.

To participate in the financing of the scientific campaign 2016 of the Hypertelescope: join our campaign of crowdfunding on the platform Kickstarter during the months of May and June 2016.

www.kickstarter.com/profile/hypertelescope

...and follow the instructions!

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