Introduction

In this poster, we present the two days of online training course organized in May 2021 thanks to OAD fundings. The participants were gathered at the university in Senegal and the trainers were online. There were 20 selected participants, including 18 Senegalese from four different universities in Senegal and two PhD students from Burkina Faso. The training was dedicated to candidates with at least a Master's degree, particularly in physics, mathematics and computer science. The trainers were researchers from the French Institute of Research for Sustainable Development of France (IRD), the Observatory of the Côte d'Azur of Nice (OCA), the Paris Institute of Astrophysics (IAP), the Paris Observatory, the University of Paris Saclay, and the University of Antwerp Belgium.

The training focused on Python programming, observational astronomy and the analysis of astronomical data on Python via its Astropy module. The observational data used were obtained from the “Centre Pédagogique Planète Univers (https://www.oca.eu/fr/c2pu-accueil)”. The content of the course was firstly an introduction to Python, followed by tutorials on photometry in astronomy. In order to convey the interest of the proposed photometric study, half a day is devoted to observational astronomy. The tutorials also allow students to discover the Python modules specific to astronomy (e.g. astropy).

Participants

The training brought together participants from four different universities in Senegal, UCAD, UVS, Université Gaston Berger de Saint Louis (UGB, http://www.ugb.sn), Université Aïlina Diop de Bamby (UADB, http://www.uadb.edu.sn), and also two participants from Burkina Faso. The training targeted participants at Master's level in STEM fields.

CONCLUSION ET PERSPECTIVES

Given the enthusiasm of the participants and the trainers, we are planning to hold a second school next year, and hope to have the equipment available to enable participants to make observations and measurements during the workshops, and in the long term to offer a school every year, if possible as part of a master’s module at Cheikh Anta Diop University.

In the years to come, we hope to be able to extend this training on a regional scale with the collaboration of other French-speaking African countries.