Survey on the impact of LA-CoNGA physics **on Master's programs.**

Institution	UIS	UAN	USB	UCV	Yachay	USFQ	UNI	UNMSM
Questions **How has LA-CoNGA improved the curriculum, methodology and equipment of the master's programs?**	LA-CoNGA physics improved our master curriculum incorporating two new courses updating the student's options significantly. Before LA-CoNGA physics, we have the standard physics courses, and now we open the panorama, including Data Science and Scientific Instrumentation courses in the basic training module.	The methodology used before LA-CoNGA physics in the UAN master degree was the traditional one. With LA-CoNGA physics, the UAN students had the opportunity to use the new e-learning platform, courses given by professors of different Institutions and contact with students of the four different Latin-America	LA-CoNGA physics has provided the opportunity to introduce the topics of data science and instrumentation into the master's curriculum and to give a more current approach to the topics of particle physics and complex systems. Regarding the methodology, he has contributed to systematize the use of remote	The curriculum in HEP was created with a research and professionalization profile. The CS curriculum has improved. The methodology changed from traditional to e-learning platform and remote interactive teaching, with staff from inter institutional consortium. For the first time our students were exposed to edge cutting topics of	We have established a whole new lab dedicated to high energy physics and will allow us to sell the master's program in fundamental physics to the authorities. LA-CoNGA physics blends perfectly with our proposed program and complements inside talent with excellent international professors.	Master program at USFQ did not consider HEP and Complex Systems as branches of specialization due to lack of teachers and equipment. The LA-CoNGA physics program has enhanced the offer of our master program, improved e-learning capabilities and provided experimental equipment which allow our students	The curriculum of our master program was improved significantly by LA-CoNGA physics with the introduction of five new courses and its new methodology. Now we have a perfect balance between theoretical, data analysis and simulation, and detector instrumentation. And we got all this with an international	The curriculum in HEP and CS was created with a research and professionalization profile. The methodology changed from traditional to e-learning platform and remote interactive teaching, with staff from inter institutional consortium. For the first time our students were exposed to edge cutting

		n countries of the Consortium. The laboratory equipment has been improved.	pedagogical tools.	instrumentation in HEP. Access to modern instrumentation in HEP and CS.		to perform experiments that consolidate theoretical knowledge.	scientific collaboration.	topics of HEP and CS. Access to modern instrumentation in HEP and CS.
How has LA-CoNGA physics **impacted the master's thesis works at your institution?**	Before LA-CoNGA physics, most of our students did their research work in-house with local supervisors. With the academic networking developed by the LACoNGA Physics, there is a new	We have one student, working in the ATLAS experiment and participating in an internship with a co-advisor from Czech Republic.	It is foreseen that we will systematize the practice of offering students the opportunity to carry out thesis work associated with research projects of other collaboration institutions with both local	NA	Haven't reached that Point, but professors from Yachay are enabled to be advisors and co-advisors to partner institutions, broadening the possibilities for students within	USFQ' s Master program started in 2020, at the moment we do not have students ready for internships or thesis.	We have one internship and thesis co-advisor from U. de Michoacán, Mexico, but inside of the academic network developed by the LA-CoNGA Physics.	Thanks to the mobility scheme we have one internship and thesis co-advisor from University of Toulouse, France.

	opportunity for our students to collaborate with other colleagues within the consortium or with the industrial or academic partners. Several of our students.		and external scientific support.		LA-CoNGA physics.			
Compare academic relationships in HEP and CS before and after LA-CoNGA physics**.**	Before LA-CoNGA physics, there was no experimental high energy physics expertise in our school. We were part of the CeVALE2ve initiative and in Astroparticle with the Auger Observatory. Now, we have improved the number of courses, and our	Although UAN was already participating in different Collaborations with European and American experiments, the UAN groups had no collaboration with Latin-American Groups working in HEP or CS. Before: No	Although UAN was already participating in different Collaborations with European and American experiments, the UAN groups had no collaboration with Latin-America n groups working in HEP or CS. Since LA-CoNGA physics project has	Before: No collaboration with seven Latin-America n HEI and world leading academic and research institutions in HEP and CS. Now: Collaboration with all LA-CoNGA physics consortium academic and research institutions.	The component of CS arose from proposals in France and Yachay Tech. It attracted more students than we could ever hope for in our own program. This creates a good environment when a critical mass of students interact on a	Before: No collaboration with CS researchers Now: Collaboration with all LA-CoNGA physics consortium academic and research institutions.	Before: No collaboration with six Latin-America n institutions from Venezuela, Colombia and Equator. Now: Collaboration with all LA-CoNGA physics consortium academic and research institutions.	Before: No collaboration with seven Latin-America n HEI and world leading academic and research institutions in HEP and CS. Now: Collaboration with all LA-CoNGA physics consortium academic and research institutions.

	students have the opportunity to follow formal courses in HEP and in Data Science.	collaboration with seven Latin-America n HEI and world leading academic and research institutions in HEP and CS. Now: Collaboration with all LA-CoNGA physics consortium academic and research institutions. Since the LA-CoNGA physics project has started, UAN group has the opportunity to collaborate with the Consortium Institutions.	started, UAN group has the opportunity to collaborate with the Consortium Institutions.		particular area of knowledge.			

What is the prospect of future collaboration between your institution and the others in the LA-CoNGA physics **consortium?**	LA-CoNGA physics has provided the opportunity to find common areas of interest. Our group in UIS is starting a collaboration with colleagues of USFQ for developing detectors based on the effect of Cosmic Rays for different purposes. We are also exploring the possibility to collaborate with the theory group of UNMSM modelling General Relativistic Compact Objects.	We plan to continue collaborating with the other Institutions of the Consortium, continuing with the e-learning platform effort and creating joint research projects.	We hope to continue our collaboration with the other institutions in all aspects related to LA-CoNGA physics activities and seek other areas of common interest in research and teaching to further expand our work together.	Our institution will continue as part of the consortium network with the possibility to extend this collaboration beyond HEP and CS.	The synergy of exchanging expertise in teaching and research broadens the horizons for the students of the individual institutions. Although countries differ in the flexibility of the programs in recognizing this activity, I believe it is inevitable and more academic inclined authorities will strongly support the LA-CoNGA physics formula for their programs.	Common interest with UIS in developing DAQ systems for CR detection with applications in imaging and environmental monitoring.	Our institution will continue as part of the consortium network. We will continue our collaboration with UNMSM from Peru, and we expect to start new collaborations with colleagues (friends) of some of LA-CoNGA physics institutions.	Our institution will continue as part of the consortium network with the possibility to extend this collaboration beyond HEP and CS.