

Vincenzo Vagnoni appointed as the new spokesperson of the LHCb collaboration

✍ S. Arcelli 📅 31-01-2023 🔗 <http://www.primapagina.sif.it/article/1645>

Vincenzo Vagnoni of the National Institute for Nuclear Physics has been appointed as the new spokesperson of the LHCb collaboration for a period of three years, beginning 1st July 2023, and will represent more than 1500 people from 85 institutions in 20 countries. He will receive the baton of the LHCb leadership from Chris Parkes of the University of Manchester in the UK, spokesperson-in-charge since 1st July 2020.

Vincenzo Vagnoni will take the lead of the LHCb experiment in a very exciting phase: The next few years will be essential to demonstrate the power of the new detector and to finalize the project for the future upgrade.

During the last shutdown of the Large Hadron Collider (LHC), the detector was completely renewed (LHCb Upgrade I), to cope with an instantaneous luminosity increased by a factor of 5 compared to the previous data-taking phases. The new trigger system is now able to read the entire detector at a frequency of 40 MHz and to process the data entirely via software, without the aid of a hardware trigger level, and this will allow to further increase trigger efficiencies for various channels of interest. During the next two runs of the collider, LHCb will increase the overall statistic of various hadron decay channels containing beauty and charm quarks by about a factor of 10, allowing for improved accuracy on many measurements fundamental to both flavor and non-flavor physics.

The LHCb collaboration is also planning a further upgrade (LHCb Upgrade II) to be implemented during the fourth shutdown of the LHC and in view of the HL-LHC, to raise the capability in terms of taking data for a luminosity increase by another factor of 10, with the main aim of maximizing the potential for discovery in the sector of flavor physics and sensitivity to signals beyond the Standard Model. Vincenzo Vagnoni is a Research Director of the National Institute for Nuclear Physics in Bologna, and has been a member of the LHCb collaboration for more than 20 years, He has been Physics Coordinator of LHCb from 2016 to 2018, and acted as a convener in several physics working groups of the experiment. Our congratulations to Vincenzo for this important appointment!



Silvia Arcelli - Professoressa associata presso l'Università di Bologna, svolge attività di ricerca nell'ambito della fisica subnucleare alle alte energie. Ha partecipato all'esperimento OPAL presso il LEP del CERN e all'esperimento CMS presso il Large Hadron Collider (LHC), ed è attualmente membro della collaborazione ALICE per lo studio delle collisioni di ioni pesanti ultrarelativistici a LHC e dell'esperimento DarkSide presso i Laboratori Nazionali del Gran Sasso dell'INFN. Svolge attività didattica nei corsi di Laurea in Fisica, ed è stata coordinatrice del Corso di Dottorato in Fisica dell'Ateneo di Bologna. Dal 2014 è membro, come Vicedirettore, del comitato editoriale di SIF Prima Pagina.