The Torino CMS group is seeking for a postdoctoral research associate to work in the area of experimental particle physics on the CMS experiment at the LHC. The Torino team is one of the largest and dynamic group within the CMS collaboration, and is active on several physics research area and detector related activities. In particular, the Torino group is playing a leading role in the physics analyses based on the production of two Z bosons, such as H->ZZ and other key Standard Model processes, like the ZZ+jets production, including vector boson scattering as well.

The processes which involved the production of multi-bosons are particularly interesting both for understanding the Standard Model of particle physics and searching for new physics phenomena beyond it. Several independent but yet interconnected analysis can be performed to draw the picture of the Nature underlying the particle interactions. On one hand, the newly discovered Higgs boson can be studied in the golden channel H->ZZ->4l, on the other, yet unobserved processes can be analyzed with the very similar final state, just extending the search requiring the presence of other particles, such has jets or additional leptons.

The successful candidate is expected to take leadership in this class of analysis and in the development of the software tool needed by the CMS collaboration.

Candidates must possess a scientific experience in experimental particle physics and an excellent track record. PhD degree is recommended but not mandatory. The selected candidate will be mainly based in Torino, but candidates must be willing to spend a portion of their appointment at CERN, although the exact details of the location of the position are to be determined. This is initially a one-year appointment; however, the contract may be renewed contingent upon available funding and mutual satisfaction.

To submit an application, please follow the instruction detailed in this link:
https://www.serviziweb.unito.it/albo_ateneo/?
The post-doc position on CMS is number A02.69/2015. Candidature shall be submitted through the https://loginmiur.cineca.it/ web portal before *July, 8* - *12 o'clock (CET)*.

If you have any question or doubt do not hesitate to contact one of the persons listed below:

Prof. Marco Costa: mcosta@to.infn.it
Prof. Ernesto Migliore: migliore@to.infn.it
Dr. Riccardo Bellan: bellan@to.infn.it