Contribution ID: **56** Type: **On-site planned, but remote also possible**

Data analysis of D mesons in CMS and its phenomenological results

There are on-going projects of measuring charm production at 0.9, 5, 7 and 13 TeV in CMS. Measuring D mesons like D0 and D* by reconstruction of pion and kaon particles detected from CMS experiment is to derive charm total cross section at different energies, which follows extrapolation of cross section from not only CMS measurement and also other LHC measurements.
This summer student project then aims to follow the above on-going project by running analysis codes, deriving result plots of charm production from different meson states.
Physics: 60%, Computing: 40%

Field

B1: Particle physics analysis (software-oriented)

DESY Place

Hamburg

DESY Division

FH

DESY Group

CMS-D

Special Qualifications:

Basic knowledge and exercise on programming languages like C, C++, Python and on ROOT

Primary authors: GEISER, Achim (CMS (CMS Fachgruppe QCD)); YANG, Yewon