

Linda Ceraul

From: Eugene Pasyuk <pasyuk@jlab.org>
Sent: Tuesday, March 8, 2022 11:18 AM
To: Hallb_physicist@jlab.org
Subject: Monday March 14th Interview seminar

Hall B virtual seminar

Pierre Chatagnon
INFN Genova, Italy

Studying QCD with CLAS12 and CMS: from timelike Compton scattering to diffractive top pair production

Abstract:

In this seminar, I will present the main achievements that I obtained during my PhD and my current research as a postdoc in INFN Genova. After briefly presenting my curriculum vitae, I will describe the first observation of the Timelike Compton Scattering (TCS) process. This measurement, performed with the CLAS12 detector at Jefferson Lab during my PhD, provides a way to test the universality of Generalized Parton Distributions (GPDs) and explore the mechanical properties of the nucleon. After that, I will introduce my current research, dedicated to the first measurement of the diffractive top pair production with the CMS experiment at CERN. This process, predicted by the Standard Model but never measured, could provide insight on the gluon content of the pomeron.

All along the presentation, I will highlight the competencies that I have gained while conducting my research. In particular, I will highlight my experience with Machine Learning techniques and my wide range of software and hardware skills. I will conclude the seminar by exposing my interest in the future Hall B scientific program and emphasize how my skills can fit within the current Hall B activities.

Monday, March 14, 2022

11:00 am - 12:00 pm

<https://jlab-org.zoomgov.com/j/1608894845?pwd=U2hnUnFSVGp3UFZTRGVrTXdwNnJjZz09>

-Eugene