

Olga Gogota

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EDUCATION

National Taras Shevchenko University of Kyiv, Ukraine 2012-2015
PhD student, defence expected at the end of 2016

National Taras Shevchenko University of Kyiv, Ukraine 2010-2012
Master of Science in Physics & High energy physics (with honours)
Master thesis: "Measurement of $W+c$ -jets differential cross section at Tevatron"

National Taras Shevchenko University of Kyiv, Ukraine 2006-2010
Bachelor of Science in Physics & High energy physics (with honours)
Bachelor thesis: "Study of Charm $D0$ mesons in Photoproduction in electron-proton collisions at HERA"

EXPERIENCE

Fermilab, Batavia, USA 2011-2015
guest scientist
short time visits, summing up to about 2 years
working on my master and PhD theses

DESY, Hamburg, Germany 2009-2011
guest scientist
short time visits, summing up to about 1 year
working on my bachelor thesis

PRESENTATIONS AND POSTERS

- *"First observation and studies of the simultaneous production of J/ψ and Y at the Tevatron"*, American Physical Society(APS) April Meeting 2015, Baltimore, Maryland, USA(presentation);
- *"Observation and studies of the double J/ψ production at the Tevatron"*, 47th Fermilab Users Meeting, 2014 FNAL, Batavia, USA (poster);
- *"Measurements of $W+b+X$ and $W+c+X$ production cross sections at the Tevatron"*, American Physical Society(APS) April Meeting 2014, Savannah, Georgia, USA(presentation);
- *"Double J/ψ production at $D0$ experiment"*, International school of Subnuclear Physics 2013, 51st Course: Reflections on the next step for LHC,Erice, 24 June - 3 July 2013(presentation).

TECHNICAL STRENGTHS

Operating systems	Linux and Windows
Programming languages, middle	C/C++, QT4/5, bash
Programming languages, basic	Fortran, Java
Mathematics packages	Matlab, Maple
Codes for simulations of ionizing particle transport	MCNP, FLUKA, GEANT4
Frameworks	ROOT
Parallel Computing	beginner in MPI, OpenMP
Other	advanced in LaTeX

SCHOOLS AND CONFERENCES

- American Physical Society(APS) April Meeting 2015, Baltimore, Maryland, USA(presentation);
- 47th Fermilab Users Meeting, 2014 FNAL, Batavia, USA (poster);
- American Physical Society(APS) April Meeting 2014, Savannah, Georgia, USA(presentation);
- International school of Subnuclear Physics 2013, 51st Course: Reflections on the next step for LHC,Erice, 24 June - 3 July 2013(presentation);
- Terascale Monte Carlo School 2009 (DESY, Hamburg), April 2009.

RESEARCH EXPERIENCE AND INTERESTS

Double parton scattering:

Production of quarkonium pairs (e.g. double J/ψ , $J/\psi + \Upsilon$) in double parton scattering at the Tevatron. Published in 2014: Observation and studies of double J/ψ production at the Tevatron By D0 Collaboration (Victor Mukhamedovich Abazov et al.). Phys.Rev. D90 (2014) 11, 111101 and another one submitted in 2015: “Evidence for simultaneous production of J/ψ and Υ mesons By D0 Collaboration (Victor Mukhamedovich Abazov et al.)”. arXiv:1511.02428 [hep-ex]..

QCD:

The subject of my master project was the measurement of the differential $W+c\&b$ -jets cross sections at the muon channel at D0 experiment at Tevatron. Published in 2015: Measurement of the $W+b$ -jet and $W+c$ -jet differential production cross sections in $p\bar{p}$ collisions at $\sqrt{s}=1.96$ TeV By D0 Collaboration (Victor Mukhamedovich Abazov et al.), Phys.Lett. B743 (2015) 6-14.

AWARDS

2d diploma of the “Physicist-2006” Olympiad in Physics, National Taras Shevchenko University of Kyiv, Department of Physics, 2006