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)	
National Taras Shevchenko University of Kyiv, Ukraine	2006-2010
Bachelor of Science in Physics & High energy physics (with honours)	

Bachelor of Science in Physics & High energy physics (with nonours)	
EXPERIENCE	
Fermilab, Batavia, USA	2011-2015
guest scientist, summing up to about 2 years	
DESY, Hamburg, Germany	2009-2011
guest scientist, summing up to about 1 year	

PRESENTATIONS, POSTERS, SCHOOLS AND CONFERENCES

- "First observation and studies of the simultaneous production of J/ψ and Y at the **Tevatron**", APS April Meeting 2015, Baltimore, Maryland, USA(presentation);
- "Observation and studies of the double J/w production at the Tevatron", 47th Fermilab Users Meeting, USA (poster);
- "Measurements of W+b+X and W+c+X production cross sections at the Tevatron", APS April Meeting 2014, Savannah, Georgia, USA(presentation);
- "Double J/psi production at D0 experiment", International school of Subnuclear Physics 2013(presentation);
- Terascale Monte Carlo School 2009 (DESY, Hamburg), April 2009.

TECHNICAL STRENGTHS

Programming languages, advanced C/C++(ROOT), QT4/5, bash Programming languages, Mathematics packages, experienced Fortran, Java Matlab, Maple Codes for simulations of ionizing particle transport, experienced MCNP, FLUKA, GEANT **Parallel Computing** beginner in MPI, OpenMP Other advanced in LaTex

RESEARCH EXPERIENCE AND INTERESTS

Double parton scattering:

Production of quarkonium pairs (e.g. double \$J/\psi\\$, \$J/\psi+\Upsilon\\$)[1,3] in double parton scattering at the Tevatron. It would be interesting to compare parameter characterized double parton interactions, effective cross section, determined in production of quarkonium pairs with measurements in proton-proton collisions at the LHC. Another point of interest is looking at the LHC data for simultaneous production of \$J/psi+\Upsilon\$ mesons.

The importance of multiple parton interactions in hadron-hadron collisions as a background to processes such as Higgs production or various new phenomena has been often underestimated in the past.

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[2].

List of main publications:

- 1. Evidence for simultaneous production of \$J/\psi\$ and \$\Upsilon\$ mesons By D0 Collaboration (Victor Mukhamedovich Abazov et al.). arXiv:1511.02428 [hep-ex].
- 2. Measurement of the \$\vert W + b\struct -jet and \$\vert W + c\struct -jet differential production cross sections in \$p\bar{p}\struct collisions at \$\sqrt{s}=1.96\struct TeV\$

 By D0 Collaboration (Victor Mukhamedovich Abazov et al.).

 arXiv:1412.5315 [hep-ex].

 10.1016/j.physletb.2015.02.012.
- 3. Phys.Lett. B743 (2015) 6-14.
 Observation and studies of double \$J/\psi\$ production at the Tevatron By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
 arXiv:1406.2380 [hep-ex].10.1103/PhysRevD.90.111101.
 Phys.Rev. D90 (2014) 11, 111101.