Sándor Lökös

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Studies

2019 -

PhD candidate

2019

PhD, particle physics program

Eötvös Loránd University

Theoretical and experimental investigations of quantumstatistical correlations at the PHENIX experiment

2014

Master of Science with particle physics specialization

Eötvös Loránd University

The generalization of the Buda-Lund hydordynamical model to describe arbitrary asymmetries of the space-time and velocity field distribution of an expanding source

2012

Bachelor of Science in Physics

Eötvös Loránd University

Exact solution of relativistic perfect fluid hydrodynamics for a QCD equation of state

Research experiments

Member of the Hungarian PHENIX group

Research field:

High energy heavy ion collisions

Measurements of quantumstatistical correlations at the PHENIX experiment. Investigating the QCD phase diagram

Relativistic hydrodynamics

Investigations and applications of hydrodynamical models and solutions to understand the QGP in the framework of the phenomenological description

Papers, conference talks and posters

5 selected papers

2019 Coulomb final state interaction in heavy ion collisions for Levy sources
Máté Csanád, Sándor Lökös, Márton I. Nagy , Universe 2019, 5(6), 133

2018 Lévy-stable two-pion Bose-Einstein correlations in √sNN=200 GeV Au+Au collisions
PHENIX Collaboration , Phys. Rev. C 97, 064911

2018 Centrality Dependent Lévy-Stable Two-Pion Bose-Einstein Correlations in sNN= 200 GeV Au+Au Collisions at the PHENIX Experiment
Lökös for the PHENIX Collaboration, Universe 2018, 4(2), 31

2017	Higher order anisotropies in the Buda-Lund model: Disentangling flow and density field anisotropies Sándor Lökös, Máté Csanád, Tamás Csörgő, Boris Tomášik Eur. Phys. J. A (2016) 52: 311
2012	Exact solutions of relativistic perfect fluid hydrodynamics for a QCD equation of state M. Csanád, M. I. Nagy, S. Lökös Eur. Phys. J. A, 48 11 (2012) 173

Research IDs

- MTMT: 10050566
- ORCID: 0000-0002-4447-4836
- ResearcherID: 1803047
- Scopus: 57216675084

Teaching

Script languages (Phyton) Szent István University

Statistics II. EKáE, Gyöngyös, Stipendium Program (english)

Differential equations (BSc – Environmental studies)

Labor practice for environmental physics (BSc – Environmental studies)

Leövey Klára High School – laboratory assistent

Up-to-date experimental methods laboratory practice (BSc – Physics)

Languages

Magyar	Mother tounge
Angol	Fluent
Olasz	Basic

Computer skills

Unix and Windows	User, basic skills in MS applications, LaTex
Mathematical and visualization	Mathematica, ROOT, Gnuplot
Programming	C++, Python, shell, HTML, CSS, PHP (beginner)