

Vangelis Vladimirov

EDUCATION

PhD in Physics *02/10/2017 - 07/01/2022*
University of Warwick *Coventry, United Kingdom*

Bachelor of Science, Master of Physics (with Honours) *30/09/2013 - 01/07/2017*
University of Warwick *Coventry, United Kingdom*

High School Diploma *2008 - 2013*
Sofia High School of Mathematics *Sofia, Bulgaria*

RESEARCH AND TEACHING ACTIVITY

Research Assistant *10/01/2022 - 31/03/2022*
University of Warwick

Digitisation of analogue magnetogram images provided by the British Geological Survey using MATLAB.

Doctoral Research Project *02/10/2017 - 07/01/2022*
University of Warwick

Sensitivity estimation of the first ATLAS measurement of the CKM matrix element $|V_{cb}|$ in top quark pair decays using Monte Carlo generated events. ATLAS authorship task - effects of thermal variations on mechanical Inner Tracker silicon strip modules.

Undergraduate Laboratory Demonstrator *2017 - 2019*
University of Warwick

Demonstrator in the first and second year undergraduate electronics laboratory.

Final Year Undergraduate Project *10/2016 - 03/2017*
University of Warwick

Simulation of $e^+e^- \rightarrow ZH$ event kinematics and event selection at the International Linear Collider using C++ and the ROOT framework.

Summer Undergraduate Research Project *07/2016 - 09/2016*
University of Warwick

Investigation of comet tail oscillations of the comet Encke (2013) as it approached its perihelion.

GRANTS

PhD project was funded by a Science and Technology Facilities Council (STFC) PhD grant. Magnetogram project was funded by a portion of the STFC Impact Accelerator Award grant to the University of Warwick.

TECHNICAL EXPERIENCE

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|--------------------|-------------|
| Computer Languages | C++, Python |
| Software & Tools | LaTeX, ROOT |

EVENT CONTRIBUTIONS

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|-----------------------------|---|
| ATLAS UK (2020) | Presentation of UK contribution to ATLAS Top Properties group |
| The Spice of Flavour (2018) | Postgraduate poster presentation |

LANGUAGES

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|-----------|--------------------------|
| Bulgarian | Native speaker |
| English | Full working proficiency |
| Greek | Conversational level |

PUBLICATION CONTRIBUTIONS

P. Harrison, V. Vladimirov (2019). A method to determine $|V_{cb}|$ at the weak scale in top decays at the LHC, *Journal of High Energy Physics*. 2019. 10.1007/JHEP01(2019)191 [[arXiv:1810.09424](https://arxiv.org/abs/1810.09424)].

G. Nisticò, V. Vladimirov, V. Nakariakov, K. Battams, V. Bothmer (2018). Oscillations of cometary tails: A vortex shedding phenomenon?, *Astronomy & Astrophysics*. 615. 10.1051/0004-6361/201732474 [[arXiv:1804.00997](https://arxiv.org/abs/1804.00997)].

ATLAS coauthor in the period 2020-2022 (52 papers), full list can be found at the CERN document server - [[CDS](https://cds.cern.ch)] or [[InspireHEP](https://inspirehep.net)].