Alistair J. Chopping

Curriculum Vitae

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I am currently a first-year PhD student under the supervision of Dr Charlotte Sleight, in the Mathematics department at Durham University. I am interested in theoretical high-energy physics; my project is entitled "Bootstrapping Holography", and a description can be found at https://gtr.ukri.org/projects?ref=studentship-2567207.

Education

- **PhD Mathematical Sciences - Theoretical Physics.** *October 2021- Present*
  Department of Mathematical Sciences & Centre for Particle Theory, Durham University, UK. Office MCS3010.
  Supervisor: Dr C Sleight.
  Project: "Bootstrapping Holography".

- **MPhys (Hons) Theoretical Physics.** *September 2017 - June 2021.*
  Department of Physics, Swansea University, UK.

  1st Class Honours, 89% Overall Average.
  Recipient of the PM Davidson Prize for Best Theoretical Project at Level M.

  MPhys Thesis: "Black Holes and The Information Loss Paradox".
  Supervisors: Professor Timothy Hollowood & Professor S. Prem Kumar.
  Project culminated in a calculation of the entropy dynamics of a pair of asymptotic–AdS_2 black holes in JT gravity, using the island prescription. *Thesis available upon request.*

  Grades include:
  100% in Quantum Mechanics II, Mathematical Methods I and Physics Simulation,
  99% in Statistical Physics and Foundations of Astrophysics,
  94% in Advanced Particle Physics,
  92% in General Relativity,
  89% in Quantum Field Theory.

- **GCSEs & A-levels** *September 2009 - June 2017*
  Hanley Castle High School & Sixth Form Centre, Worcestershire, UK.
  A-Levels: Physics, Mathematics, Chemistry, AS-Level Biology.
  8 GCSEs, including English Language and English Literature.

Technical Skills

- **Computing Skills**
  Good knowledge LaTeX & Microsoft Office. Knowledge of Mathematica (last used for calculations relating to black hole thermodynamics & evaporation for MPhys project). Previous knowledge of *Python* (used for integration, data analysis, solving ODEs & Monte Carlo methods during MPhys degree). Good knowledge of Microsoft Windows operating systems.

- **Languages**
  Modern Greek – Self-taught, elementary proficiency.

References

- **Dr Charlotte Sleight**, Department of Mathematical Sciences and Computer Science, Durham University, UK.
  E-mail: charlotte.sleight@durham.ac.uk.
- **Professor Timothy Hollowood**, Department of Physics, Swansea University, UK.
  E-mail: t.hollowood@swansea.ac.uk.
- **Professor Carlos Núñez**, Department of Physics, Swansea University, UK.
  E-mail: c.nunez@swansea.ac.uk.