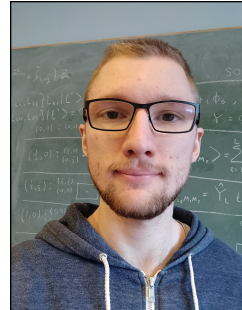


Rasmus Steen Kofoed Nielsen

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Born: June 10, 1996—Roskilde, Denmark
Nationality: Danish



Current occupation

In search of PhD position

Education

2018 *B.Sc. in Physics: Quantum Physics*, University of Copenhagen
2020 *M.Sc. in Physics: High Energy Theory and Cosmology*, University of Copenhagen

Areas of primary interest

- Quantum Field Theory
 - General Relativity
 - Differential Geometry
 - Quantum Gravity
 - String Theory
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Subjects of prior and current work

- Black hole solutions in $(2+1)$ dimensional Einstein gravity (*B.Sc. thesis*)
 - Point particle solutions in $(2+1)$ dimensional Anti-de Sitter space (*project o.c.s.*)
 - Defect conformal field theory in the context of AdS/CFT (*M.Sc. thesis*)
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Subject of master thesis

2019, 2020

Computation of various *two-point functions* between types of local single-trace scalar operators in different (*less supersymmetric*) defect versions of $\mathcal{N} = 4$ super Yang Mills theory. Both conventional perturbative techniques, as well as techniques related to *integrability* in $\mathcal{N} = 4$, are employed in order to obtain the next to leading order contributions of the two-point functions in question.

Subject of bachelor thesis

2018

Features of *black hole solutions* in $(2+1)$ dimensional Einstein gravity with a cosmological constant. We examine both classical features like *mass and spin*, and the semiclassical appearance of a temperature leading to *Hawking radiation*.

Projects outside course scope

2018

Reading course on *point particle solutions* in $(2+1)$ dimensional *Anti-de Sitter space*, and their connection to *rotating and non-rotating black hole solutions*.

Programming experience

- Extensive programming experience with:
Mathematica, Maple, MATLAB, Python, PHP and HTML
 - Moderate programming experience with:
JavaScript, C++, C and Java
 - Solved 24 [Project Euler](#) problems (*programming challenges*).
 - Link to my [GitHub Page](#), containing various projects.
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Volunteer work

2017, 2018,
2019

- Worked for the IT department of the nonprofit organization **Roskilde Festivalen**, by delivering and connecting cash registers to shops on the festival grounds.
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Prior work experience

2008, 2009

- Worked as *paperboy* for a local newspaper in the Roskilde area: **Dagbladet Roskilde**.

2021-

- Working as *part time math teacher*: **Frederiksberg HF-kursus**.
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Language proficiency

- Danish: *native speaker*
 - English: *fluent*
 - German: *basic knowlegde*
 - Japanese: *basic knowlegde*
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Hobbies

- Reading books and watching lectures on math and physics
 - Doing exercise and weightlifting
 - Playing computer games
 - Watching films and TV series
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