

# JEAN-FRANÇOIS VADURET

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## EDUCATION

### Uppsala Universitet

M.Sc. String Theory and Quantum Field Theories

Dissertation: Holographic RG-flows and the domain-wall/cosmology correspondence

Uppsala, Sweden

Expected February 2020

### Aix-Marseille Université and Université de Poitiers

B.Sc. Physics, Graduated At the top of the class with High Honours

Marseille/Poitiers, France

May 2017

### Lycée Émile Combes

High School Graduation with Highest Honors, Major: Mathematics

Pons, France

July 2014

## RESEARCH EXPERIENCE

### Uppsala Universitet, Physics and Astronomy Department

2017-present

*Research Assistant* with Dr. Marjorie Schillo

“GPPZ and the Holographic Triforce against Scalars”

- Developed gauge invariant cosmological perturbation formalism for Euclidean sliced AdS domain-wall in D dimensions
- Computed one-point functions of operator dual to perturbation of active and inert scalar fields in GPPZ solution

*Research Assistant* with Dr. Rikard Enberg

“The theory of the perfect scientific article”

- Investigated literature on scientific writing to write a report listing advice on the subject

### Aix-Marseille Université, Centre de Physique Théorique CNRS

Summer 2017

*Research Assistant* with Dr. Federico Piazza

“Interacting dark matter as a solution to the  $H_0$  tension”

- Investigated literature on dark energy as scalar field decaying into dark matter as solution to the  $H_0$  tension

## PUBLICATIONS

- J.-F. Vaduret, *GPPZ and the Holographic Triforce against Scalars*, (2019) [[urn:nbn:se:uu:diva-397107](https://nbn-resolving.org/urn:nbn:se:uu:diva-397107)]

## SCHOLARSHIPS

- *Merit Scholarship*, awarded by the Government of France

## OTHER EXPERIENCES

- Attended Nordita Winter School on Theoretical Particle Physics, January 2019
- Attended workshop Navigating the Swampland, Madrid, September 2019

## REFERENCES

Prof. Giuseppe Dibitetto

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Dr. Marjorie Schillo

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