

Zian CHEN

Curriculum Vitae

17.20.03, Bâtiment 17, Ecole Polytechnique,
Route de Saclay, Palaiseau, France
+33 (0)7 57 65 12 53
scgyca@mail.ustc.edu.cn
home.ustc.edu.cn/~scgyca

BRIEF PERSONAL INTRODUCTION

NAME	Zian CHEN
NATIONALITY	Chinese
BIRTHDAY	March 23th, 2003. 19 years old now.
HOMETOWN	Wenzhou, Zhejiang Province, China.
UNIVERSITY	University of Science and Technology of China
GRANDE ECOLE	Ecole Polytechnique
MAJOR	Mathematics

CURRENT GRADE

Major means only mathematics, physics and computer science.

GPA	3.36/4.30(Total) 3.91/4.30(Major)
AVERAGE	84.4/100.0(Total, weighted) 90.6/100.0(Major, weighted)

RESEARCH PROJECT

TITLE	Self-duality in Four-dimensional Riemannian Geometry (with Haixin ZHU and Le ZHANG.) Tutor: Prof. Hao YIN
TIME	2021 Summer – 2022 Spring

Introduction

This is a book report type project. In 1978, mathematicians Atiyah, Hitchin and Singer published their paper *Self-duality in Four-dimensional Riemannian Geometry*. In this paper, they applied Penrose's Twistor method to a series of specific geometric problems and established a relationship between a series of self-duality and integrability of complex structures. This project mainly studies this thesis.

Publication

View it on my website here: (Chinese) [Self-Duality.pdf](#)

SOCIAL AND VOLUNTARY WORKS

In the Student Union of the School of Gifted Young.

2019-2020	Member of Publicity Department. Editor of <i>A Dream of Youth</i> , which is a magazine of the School of Gifted Young.
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EDUCATION

2022 – NOW	Ingénieur Polytechnicien(EXPECTED) SECTION CROSSFIT Mathematics <i>Ecole Polytechnique, Palaiseau, France</i>
2019 – NOW	Bachelor of Science(EXPECTED) SPECIAL CLASS FOR GIFTED YOUNG School of Mathematical Sciences <i>USTC, Hefei, Anhui, China</i>
2017 – 2019	Senior High School CLASS 1 Class of Mathematical and Physical Olympiad <i>Wenzhou High School, Wenzhou, Zhejiang, China</i>

AWARDS

2021	The 13th Chinese Mathematics Competitions (Math A) – Second Prize <i>Chinese Mathematical Society Popularization Committee</i>
2020	The 12th Chinese Mathematics Competitions (Math A) – Second Prize <i>Chinese Mathematical Society Popularization Committee</i>
2019	Freshman Scholarship – Gold Prize <i>University of Science and Technology of China</i>
2018	35th Chinese Physics Olympiad – Second Prize <i>Chinese Physical Society</i>
2017	34th Chinese Physics Olympiad – Second Prize <i>Chinese Physical Society</i>

SKILLS & HOBBIES

PROGRAM LANGUAGES	Free Pascal, C, C++, \LaTeX , VB.net
LANGUAGES	Chinese, English(CET4), French(A2).
SPORTS	Running, Swimming, Volleyball, Billiards, Chess, Chinese chess, Go.

TEACHING ASSISTANT WORK

2021 FALL	Electrodynamics B Instructor: Prof. Jian LIU
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Introduction

A course aims to further understanding of electromagnetic field, covering Maxwell's equations, conservation laws, electrostatics, magnetostatics, wave propagation in media, retarded potentials and radiation, scattering, and special relativity.

Travaux Dirigés

There are some additional lecture notes I've taught: (Chinese)

[A framework for Lagrangian field theory.pdf](#)

[Useful problem solving techniques.pdf](#)

[Introduction to Yang-Mills Theory.pdf](#)