Simon Chiche

Inter-University Institute For High Energies

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Research Interests

- Radio-detection of ultra-high energy (UHE) astroparticles: in-air and in-ice cosmic-ray and neutrino cascades, analytical and numerical signal modeling for GRAND and RNO-G reconstruction, background rejection and signal identification, numerical simulations (CoREAS, ZHAireS, FAERIE, Radio Morphing).
- Multi-messenger astronomy: GRAND and RNO-G collaboration, neutrino/cosmic-ray discrimination

EMPLOYMENT

2024-2027 Postdoctoral researcher at Inter-University Institute For High Energies (IIHE), Université Libre de Bruxelles (ULB): Deep cosmic-ray search within RNO-G.

EDUCATION

10/2020-10/2023 **PhD Thesis at Institut d'Astrophysique de Paris (IAP):** "Looking for ultra-high energy gamma rays in a radio haystack".

Supervised by Kumiko Kotera (IAP) and Olivier Martineau (LPNHE).

2018-2020 Master in Astronomy & Astrophysics at at Sorbonne Université Graduation with high honours, ranked 1st/36.

Teaching and mentoring

Students Mentoring

- 11/2024-Now PhD thesis, Marine Vilarino: "Search for a diffuse flux of ultra-high energy neutrinos with the Radio Neutrino Observatory in Greenland".
 - 2024 Master 2 internship, Nicolas Moller: "Simulating cosmic–ray air shower radio emission for the Askaryan Radio Array".
 - 2022 Master 2 internship, Marion Guelfand: "Lateral distribution of very inclined air-showers".
 - 2021 Master 1 internship, Valentina Richard Romei: "Semi-analytical modelling of the air-showers radio wavefront".

Classes

- 2024 Teaching assistant at Université Libre de Bruxelles:
 - Astroparticle Physics tutorials for ~ 10 Master students, 6h.

2021-2022 Teaching assistant at Sorbonne Université:

- Special relativity, tutorials for ~ 20 undergraduate students, 44h.
- Optics and Electromagnetism, practical classes for ~ 20 undergraduate students, 56h.
- $\, \bullet \,$ Computational Physics, classes and tutorials for ~ 10 undergraduate students, 32h, class preparation.

AWARDS AND FELLOWSHIPS

- 2024 1-year postdoctoral fellowship, Fonds national de la recherche scientifique FNRS (declined)
- 2020 PhD fellowship, French Ministry of Higher Education and Research
- 2015 Award for outstanding academic achievement, Sorbonne Université

COLLABORATION

GRAND (Giant Radio Array for Neutrino Detection): active member of the analysis working group RNO-G (Radio neutrino observatory in Greenland): Numerical simulations and analysis for deep cosmic-ray search

RESPONSIBILITIES

- 2021-2022 Co-Webmaster of the GRAND collaboration website [web]
- 2021-2022 Organizer of the weekly GRAND group meetings

Regular conferences for high school students at IAP

2021 Chair and organizer of the PhD annual workshop at IAP

OUTREACH

- 2024 Masterclass "Particules du cosmos" at IIHE [web]
- 2022 Science fair at IAP [web]
 Outreach for the "Astronomy Night" at IAP [web]
- 2020 Presentation of the Astronomy & Astrophysics Master 2 for CurieOsity's forum at Sorbonne Université Outreach for undergraduate interns at IAP
 - Presentation of undergraduate studies for high school students at Lycée Arago, 75012 Paris

Talks and seminars

| 19/06/2024 Two contributed talks, ARENA2024, Chicago University, United-States 29/05/2024 Contributed talk, Belgian Physical Society, VUB, Brussels, Belgium Contributed talk, RNO-G online collaboration meeting 2024, online Contributed talk, Belgian Neutrino meeting, UCLouvain, Louvain-la-Neuve, Belgium PhD thesis defense, IAP, Paris, France Contributed talk, ICRC2023, Nagoya University, Nagoya, Japan 29/05/2023 Contributed talk, ICRC2023, Nagoya University, Nagoya, Japan 29/05/2023 Contributed talk, IAP Phd annual workshop, IAP, Paris, France Contributed talk, IAP Phd annual workshop, IAP, Paris, France 2020-2023 Regular contributions to GRAND analysis, monthly and annual collaboration meetings 18/10/2022 Seminar, Karlsruhe Institute of Technology (KIT) weekly meeting, KIT, Karlsruhe, 07/06/2022 Contributed talk, Acoustic & Radio EeV Neutrino Detection Activities (ARENA), Santiago de Compostela, Spain Seminar, PhD weekly seminar, IAP, Paris, France 22/04/2022 Contributed talk, IAP PhD annual workshop, IAP, Paris, France 21/03/2022 Invited plenary talk, Rencontres de Moriond, La Thuile, Italy Seminar, Vrije Universiteit Brussels (VUB) weekly meeting, VUB, Brussels, Belgium 15/12/2021 Contributed talk, GRAND collaboration meeting, LPNHE, Paris, France Contributed talk, Saclay symposium, Institut Pascal, Saclay, France Contributed talk, IAP/C conference, La Rochelle, France Contributed talk, ICRC conference, online Seminar, PhD weekly seminar, IAP, Paris, France Contributed talk, IAP Phd annual workshop, IAP, Paris, France Contributed talk, IAP Phd annual workshop, IAP, Paris, France Contributed talk, IAP Phd annual workshop, IAP, Paris, France Contributed talk, IAP Phd annual workshop, IAP, Paris, France Contributed talk, IAP Phd annual workshop, IAP, Paris, France Seminar, PhD weekly seminar, IAP, Paris, France Contributed talk, IAP Phd annual workshop, IAP, Paris, France Seminar, High-energy journal club, IAP, Paris, France Seminar, High-energy journal club, IAP, Paris, France | 09/09/2024 | RNO-G collaboration meeting, Uppsala, Sweden |
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OTHER SKILLS

Programming skills: C++, Python, Fortran, Mathematica

Softwares: Siril, DS9, LaTeX, Suite Office

Languages: French: native; English: advanced skills; German: intermediate level; Japanese: intermediate level