

Iwasawa theory of elliptic curves and the Birch–Swinnerton-Dyer conjecture

Fact Sheet

Project Information

IwCMEBSD

Grant agreement ID: 101026826

[Project website](#) 

DOI

[10.3030/101026826](https://doi.org/10.3030/101026826) 

Project closed

EC signature date

3 May 2021

Start date

1 March 2022

End date

29 February 2024

Funded under

EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions

Total cost

€ 184 707,84

EU contribution

€ 184 707,84

Coordinated by

CENTRE NATIONAL DE LA
RECHERCHE SCIENTIFIQUE
CNRS

 France

Project description

Seeking closure to one of the most important open questions in mathematics

The language of high-level mathematics may be incomprehensible to the average reader. However, it is indispensable for the description of important processes affecting our everyday life, providing meaning and insight in areas from computer science and cryptography to crystal growth and calculation of insurance risk. The Birch–Swinnerton-Dyer conjecture is one of the seven Millennium Prize Problems identified at the beginning of the new millennium as among the most important classic

questions that have resisted solution. With the support of the Marie Skłodowska-Curie Actions programme, the IwCMEBSD project is exploring the elliptic curves E of the Birch–Swinnerton-Dyer conjecture with important applications to cryptography.

Fields of science (EuroSciVoc)

[natural sciences](#) > [mathematics](#) > [pure mathematics](#) > [arithmetics](#) > **[prime numbers](#)**

[natural sciences](#) > [mathematics](#) > [pure mathematics](#) > [algebra](#) > **[algebraic geometry](#)**



Keywords

[Birch-Swinnerton-Dyer conjecture](#)

[Iwasawa theory](#)

[elliptic curves](#)

[complex multiplication](#)

[class numbers](#)

Programme(s)

[H2020-EU.1.3. - EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions](#)

MAIN PROGRAMME

[H2020-EU.1.3.2. - Nurturing excellence by means of cross-border and cross-sector mobility](#)

Topic(s)

[MSCA-IF-2020 - Individual Fellowships](#)

Call for proposal

[H2020-MSCA-IF-2020](#)

[See other projects for this call](#)

Funding Scheme

[MSCA-IF - Marie Skłodowska-Curie Individual Fellowships \(IF\)](#)

Coordinator



CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS

Net EU contribution

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Address

RUE MICHEL ANGE 3

75794 Paris

 France 

Region

Ile-de-France > Ile-de-France > Hauts-de-Seine

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Last update: 10 September 2024

Permalink: <https://cordis.europa.eu/project/id/101026826>

European Union, 2025

