



UNIVERSITÀ
DI TRENTO

Dipartimento di
Matematica

DOTTORATO



Thursday 21 July 2022 – at 10.00 am
Seminar Room “-1” – Department of Mathematics

The seminar will take place in presence and online, through the ZOOM platform.
To get the access codes please contact the secretary office

Giovanni Tognolini

PhD Student in Mathematics

The Bombieri-Vinogradov Theorem

Abstract:

The Bombieri-Vinogradov Theorem is a statement about the error term in the Prime Number Theorem for arithmetic progressions.

We give the proper context in which this theorem lies and introduce the necessary notation and nomenclature. Therefore, we will be able to state the theorem, explain its importance and sketch the proof, giving emphasis on an analytic principle, namely the large sieve, which is useful not only for the proof of our theorem, but also for many other applications in Number Theory.

Contact person: Giordano Santilli

The seminar corresponds to the final exam of Selected Topics in Number Theory for Advanced Cryptography, a planned course within Giovanni Tognolini's first year PHD study programme

CONTATTI

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