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Deutsche Mathematiker-Vereinigung
Polskie Towarzystwo Matematyczne

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Thematic Session

Session title: Analytic Number Theory

Organizers:

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Description of the topic:

The focus of the session will be on recent developments in analytic number theory. In the past decade, the subject has been on the roll, with spectacular progress in our understanding of the distribution of primes, special classes of diophantine equations or the distribution of rational points on projective varieties, or the arrival of additive combinatorics, to mention just a few examples. A blend of these areas will be sketched out in a small number of longer talks whereas shorter talks will be devoted to up-to-date research presentations. Thus, younger researchers will have the opportunity to present their work, while some senior experts will be asked to survey important progress. We anticipate talks on analytic properties of L-functions and their arithmetic applications, distribution of integers with a prescribed multiplicative structure, on the interplay with methods from algebraic geometry, and on analytic methods in diophantine analysis.

2011 Mathematic Subject Classification:

11F, 11L, 11M, 11N, 11P, 11R.