On Turing's legacy in mathematical logic and the foundations of mathematics
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While Turing is best known for his work on computer science and cryptography, his impact on the general theory of computable functions (recursion theory) and the foundations of mathematics is of equal importance. In my talk I will focus on some of the ideas and problems arising from his work in these areas, such as the analysis of the structure of Turing degrees and the development of ordinal logics, which have been of continuous interest up to the present day and which still present formidable mathematical challenges.