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General audience presentation. On Fermat's penultimate theorem by Xavier Caruso, IMB, Bordeaux. 16:00-17:00. IHP

mercredi 29 novembre 2023 16:00 (1 heure)

Abstract. While reading books, Fermat often added notes in the margin for himself. The most famous one is certainly what is called nowadays Fermat's Last Theorem which stipulates that the equation xn+yn=zn has no nontrivial solution as soon as n>2. More than three centuries of effort were needed to eventually write down a proof of this result. In this presentation, I will discuss another margin-theorem by Fermat. It is less known but still quite impressive as it took almost two centuries to the community to obtain a full proof, opening as a byproduct new topics of research.