Some Fermat-type diophantine equations

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Abstract

Let A, B, C be non-zero integers. For a prime p the Diophantine equation $Ax^p + By^p + Cz^p = 0$ is known as the Fermat equation of degree p with coefficients (A, B, C). In this talk we will introduce the audience to the classical Fermat Last Theorem, we will sketch its proof and we will generalize it to prove a new family of coefficients (A, B, C).