

# Sums of two $S$ -units via Frey-Hellegouarch curves (joint work with Michael A. Bennett)

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# Notation and history

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with  $x$  and  $y$   $S$ -units, and  $z$  a nonzero integer is a classical problem, closely related to computing elliptic curves with good reduction outside a given set of primes.

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- B. M. M. de Weger (around 1990) : algorithm ; complete list of solutions for  $S = \{2, 3, 5, 7\}$ .