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A subset of Zⁿ whose non-computability leads to the existence of a Diophantine equation whose solvability is logically undecidable

Apoloniusz Tyszka

(Submitted on 28 Jul 2011 (v1), last revised 6 Apr 2012 (this version, v8))

For K \subseteq C, let B_n(K)={(x_1,...,x_n) \in K^n: for each y_1,...,y_n \in K the conjunction (\forall i \in {1,...,n} (x_i=1 => y_i=1)) AND (\forall i,j,k \in {1,...,n} (x_i+x_j=x_k => y_i+y_j=y_k)) AND (\forall i,j,k \in {1,...,n} (x_i*x_j=x_k => y_i+y_j=y_k)) AND (\forall i,j,k \in {1,...,n} (x_i*x_j=x_k) = y_i+y_j=y_k)) AND (\forall i,

Comments:10 pages, Theorem 3 addedSubjects:Logic (math.LO); Number Theory (math.NT)MSC classes:03D20, 11U05Cite as:arXiv:1107.5608 [math.LO]
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