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Amy Glen* (amy.glen@gmail.com), The Mathematics Institute, Reykjavik University, Kringlan 1, 103 Reykjavik, Iceland. *Palindromic properties of infinite sequences with applications to Number Theory.*

I will briefly survey some old and new results concerning palindromic properties of infinite words with connections to Number Theory, highlighting the rich interplay between Theoretical Computer Science, Combinatorics on Words, Dynamical Systems, and Diophantine Approximation. (Received January 29, 2009)