

# ON SPECIAL VALUES OF BINARY RECURRENCE SEQUENCES

ATTILA BÉRCZES (University of Debrecen)

ABSTRACT: Many Diophantine properties of binary linear recurrence sequences have been investigated either in general, or for special sequences. In this talk I will present new results concerning the Diophantine equation

$$u_n = a_1 m_1! + \dots + a_k m_k! + s$$

in positive integers  $n$  and  $m_1 > \dots > m_k$ , and an integral  $S$ -unit  $s$ . The presented result are joint work with Lajos Hajdu, Florian Luca and István Pink.

**ELAZ 2022**

Adam Mickiewicz University, Poznań, Poland  
August 22–26, 2022