

This thesis deals with possible connection between result of Léo Perrin's paper published at 2019 and Gologlu's paper published at 2022. Perrin deals with S-box π , which is a part of Kuznyechik cipher and hash function Streebog, especially he introduces the notion of TKlog, which is a structure found in the S-box. The main result of Gologlu's paper is classification of fractional q -projective functions, which seems similar to the structure of TKlog. In the thesis, there is a description of cipher Kuznyechik as well as the hash function Streebog. Then, results of Perrin's paper are described including cryptographical properties of the S-box. As a main contribution we give a design of an experiment with a goal to find a fractional q -projective function with same or similar invariants as the S-box π . Such function can be an initial point in a design of an attack.