## Publicationes Mathematicae Debrecen Year: 2024

Vol.: 104

Fasc.: 1-2

**Title:** A generalization of Tóth identity involving a Dirichlet character in  $\mathbb{F}_q[T]$ 

Author(s): Esrafil Ali Molla and Subha Sarkar

Let  $\mathbb{A} = \mathbb{F}_q[T]$  be the polynomial ring over the finite field  $\mathbb{F}_q$ . In this article, we prove a generalization of Tóth identity to A involving arithmetical functions, multiplicative and additive characters.

## Address:

Esrafil Ali Molla Department of Mathematics Ramakrishna Mission Vivekananda Educational and Research Institute G. T. Road, P.O. Belur Math Howrah, West Bengal 711202 India

## Address:

Subha Sarkar Department of Mathematics National Institute of Technology Jamshedpur Jamshedpur, Jharkhand 831014 India