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**Title:** A Menon–Sury-type identity for arithmetic functions on  $\mathbb{F}_q[T]$ 

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Let  $\mathbb{A} = \mathbb{F}_q[T]$  be the polynomial ring over the finite field  $\mathbb{F}_q$ . In this paper, we prove a Menon–Sury's identity with several multiplicative and additive characters for any arithmetic function f on  $\mathbb{A}$ . Our result implies several interesting identities which may be viewed as the analogues of known ones in  $\mathbb{Z}$ .

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