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## ON ROGERS-RAMANUJAN-SLATER TYPE THETA FUNCTION IDENTITY

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**Abstract:** The main purpose of this article is to prove two Rogers–Ramanujan–Slater type theta function identities related to  $\varphi(q)$  and  $\phi_0(q)$ , which were earlier investigated by two legendary mathematicians of their time. The results presented in this paper are motivated essentially by recent works of Cao *et al.* (see [5]).

**Keywords and Phrases:** Theta function, Rogers-Ramanujan-Slater identity, Jacobi's triple-product identity.

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