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Γ-GAMMA-SEMI NORMAL SUB NEAR-FIELD SPACES OF A Γ-NEAR-FIELD SPACE OVER NEAR-FIELD PART II

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ABSTRACT

I*n this paper we introduce the Gamma-semi normal sub near-field spaces in Γ-near-field space over a near-field PART II, and we three Smt. Thurumella Madhavi Latha, Dr. T V Pradeep Kumar and Dr. N V Nagendram together investigate the related properties of generalization of a Gamma-semi normal sub near-field spaces in Γ-near-field space over a near-field.*

Keywords: *Γ-near-field space; Γ-Semi normal sub near-field space of Γ-near-field space; Semi near-field space of Γ-near-field space.*

2000 Mathematics Subject Classification: *43A10, 46B28, 46H25,6H99, 46L10, 46M20, 51 M 10, 51 F 15,03 B 30.*

SECTION-1: INTRODUCTION

In this paper, Part II consisting two important sections we introduce the Γ-semi normal sub near-field spaces in Γ-near-field space over a near-field, and we three Smt. Thurumella Madhavi Latha, Dr. T V Pradeep Kumar and Dr. N V Nagendram together investigate the related properties of generalization of a Γ-semi normal sub near-field spaces in Γ-near-field space over a near-field.

As a generalization of a Γ-semi normal sub near-field spaces in Γ-near-field space over a near-field, introduced the notion of Γ-semi normal sub near-field spaces in Γ-near-field space over a near-field, extended many classical notions of Γ-semi normal sub near-field spaces in Γ-near-field space over a near-field. In this chapter we develop the algebraic theory of Γ-semi normal sub near-field spaces in Γ-near-field space over a near-field.

The notion of a Γ- semi normal sub near-field spaces in Γ-near-field space over a near-field is introduced and some examples are given. Further the terms; commutative Γ-semi normal sub near-field spaces in Γ-near-field space, quasi commutative Γ-semi normal sub near-field spaces in Γ-near-field space, normal Γ-semi normal sub near-field spaces in Γ-near-field space, left pseudo commutative Γ-semi normal sub near-field spaces in Γ-near-field space, right pseudo commutative Γ-semi normal sub near-field spaces in Γ-near-field space are introduced. It is proved that (1) if S is a commutative Γ-semi normal sub near-field spaces in Γ-near-field space then S is a quasi commutative Γ-semi normal sub near-field spaces in Γ-near-field space, (2) if S is a quasi commutative Γ-semi normal sub near-field spaces in

Γ-near-field space then S is a normal Gamma-semi normal sub near-field spaces in Γ-near-field space, (3) if S is a commutative Γ-semi normal sub near-field spaces in Γ-near-field space, then S is both a left pseudo commutative and a right pseudo commutative Γ-semi normal sub near-field spaces in Γ-near-field space over a near-field. Further the terms; left identity, right identity, identity, left zero, right zero, zero of a Gamma-semi normal sub near-field spaces in Γ-near-field space over a near-field are introduced. It is proved that if a is a left identity and b is a right identity of a Γ-semi normal sub near-field spaces in Γ-near-field space, then a = b. It is also proved that any Γ-semi normal sub near-field spaces in Γ-near-field space has at most one identity. It is proved that if a is a left zero and b is a right zero of a Γ-semi normal sub near-field spaces in Γ-near-field space, then a = b and also it is proved that any Γ-semi normal sub near-field spaces in Γ-near-field space over a near-field has at most one zero element

SECTION-2: Γ-SEMI NORMAL SUB NEAR-FIELD SPACES OF Γ-NEAR-FIELD SPACE OVER NEAR-FIELD SPACE

Γ-semi normal sub near-field spaces has greater importance in the theory of semi normal sub near-field spaces of Γ-near-field space over near-field space. In this section, the terms left Γ-semi normal sub near-field space, right Γ-semi normal sub near-field space, Γ-semi normal sub near-field space, proper Γ-semi normal sub near-field space, trivial Γ-semi normal sub near-field space, maximal left Γ-semi normal sub near-field space, maximal right Γ-semi normal sub near-field space, maximal Γ-semi normal sub near-field space, left Γ-semi normal sub near-field space generated by a subset, right Γ-semi normal sub near-field space generated by a sub near-field space, Γ-semi normal sub near-field space generated by a sub near-field space, principal left Γ-semi normal sub near-field space, principal right Γ-semi normal sub near-field space, principal Γ-semi normal sub near-field space of a Γ-semi normal sub near-field space are introduced. Also left duo Γ-semi normal sub near-field space, right duo Γ-semi normal sub near-field space, duo Γ-semi normal sub near-field space, left simple Γ-semi normal sub near-field space, right simple Γ-semi normal sub near-field space, simple Γ-semi normal sub near-field space are introduced. It is proved that (1) the nonempty intersection of any two left Γ-semi normal sub near-field space s of a Γ-semi sub near-field space S is a left Γ-semi normal sub near-field space of S, (2) the nonempty intersection of any family of left Γ-semi normal sub near-field spaces of a Γ-semi sub near-field space S is a left Γ-semi normal sub near-field space of S, (3) the union of any two left Γ-semi normal sub near-field spaces of a Γ-semi sub near-field space S is a left Γ-semi normal sub near-field space of S and (4) the union of any family of left Γ-semi normal sub near-field spaces of a Γ-semi sub near-field space S is a left Γ-semi normal sub near-field space of S.

It is also proved that (1) the nonempty intersection of any two right Γ-semi normal sub near-field spaces of a Γ-semi sub near-field space S is a right Γ-semi normal sub near-field space of S, (2) the nonempty intersection of any family of right Γ-semi normal sub near-field spaces of a Γ-semi sub near-field space S is a right Γ-semi normal sub near-field space of S, (3) the union of any two right Γ-semi normal sub near-field spaces of a Γ-semi sub near-field space S is a right Γ-semi normal sub near-field space of S and (4) the union of any family of right Γ-semi normal sub near-field spaces of a Γ-semi sub near-field space S is a right Γ-semi normal sub near-field space of S. Further it is proved that (1) the nonempty intersection of any two Γ-ideals of a Γ-semi sub near-field space S is a Γ-ideal of S, (2) the nonempty intersection of any family of Γ-semi normal sub near-field spaces of a Γ-semi sub near-field space S is a Γ-semi normal sub near-field space of S, (3) the union of any two Γ-semi normal sub near-field spaces of a Γ-semi sub near-field space S is a Γ-semi normal sub near-field space of S and (4) the union of any family of Γ-semi normal sub near-field spaces of a Γ-semi sub near-field space S is a Γ-semi normal sub near-field space of S.

It is proved that if S is a Γ-semi normal sub near-field space and $a \in S$ then (i) $L(a) = a \cup S\Gamma a$, (ii) $R(a) = a \cup a\Gamma S$, (iii) $J(a) = a \cup a\Gamma S \cup S\Gamma a \cup S\Gamma a\Gamma S$. It is proved that a Γ-semi normal sub near-field space S is a duo Γ-semi normal sub near-field space if and only if $x\Gamma S^1 = S^1\Gamma x$ for all $x \in S$. Further it is also proved that every normal Γ-semi sub near-field space is a duo Γ-semi normal sub near-field space. It is proved that (1) a Γ-semi normal sub near-field space S is a left simple Γ-semi normal sub near-field space if and only if $S\Gamma a = S$ for all $a \in S$, (2) a Γ-semi normal sub near-field space S is right a simple Γ-semi normal sub near-field space if and only if $a\Gamma S = S$ for all $a \in S$, (3) a Γ-semi normal sub near-field space S is a simple Γ-semi normal sub near-field space if and only if $S\Gamma a\Gamma S = S$ for all $a \in S$.

We now introduce the term of a left Γ- semi normal sub near-field space in a Γ-semi sub near-field space over near-field.

Definition 2.1: A non-empty Γ-semi sub near-field space A of a Γ-semi normal sub near-field space S is said to be a left Γ- semi normal sub near-field space of S if $s \in S$, $a \in A$, $\alpha \in \Gamma \Rightarrow s\alpha a \in A$.

Note 2.2: A nonempty Γ-semi sub near-field space A of a Γ-semi normal sub near-field space S is a left Γ- semi normal sub near-field space of S iff $S\Gamma A \subseteq A$.

Theorem 2.3: The nonempty intersection of any two left Γ-semi sub near-field spaces of a Γ- semi normal sub near-field space S is a left Γ-semi sub near-field space of S.

Proof: Let A, B be two left Γ-semi sub near-field spaces of S. Let $a \in A \cap B$ and $s \in S$, $\gamma \in \Gamma$.
$a \in A \cap B \Rightarrow a \in A$ and $a \in B$.
$a \in A$, $s \in S$, $\gamma \in \Gamma$, A is a left Γ-semi sub near-field space of S $\Rightarrow s \gamma a \in A$.
$a \in B$, $s \in S$, $\gamma \in \Gamma$, B is a left Γ-semi sub near-field space of S $\Rightarrow s \gamma a \in B$.
$s \gamma a \in A$, $s \gamma a \in B \Rightarrow s \gamma a \in A \cap B$. Therefore $A \cap B$ is a left Γ-semi sub near-field space of S.

Theorem 2.4: The nonempty intersection of any family of left Γ-semi sub near-field spaces of a Γ- semi normal sub near-field space S is a left Γ-semi sub near-field space of S.

Proof: Let $\{A_\alpha\}_{\alpha \in \Delta}$ be a family of left Γ-semi sub near-field spaces of S and let $A = \bigcap_{\alpha \in \Delta} A_\alpha$.

Let $a \in A$, $s \in S$, $\gamma \in \Gamma$.

$a \in A \Rightarrow a \in \bigcap_{\alpha \in \Delta} A_\alpha \Rightarrow a \in A_\alpha$ for each $\alpha \in \Delta$.

$a \in A_\alpha$, $s \in S$, $\gamma \in \Gamma$, A_α is a left Γ-semi sub near-field space of S $\Rightarrow s \gamma a \in A_\alpha$.
$s \gamma a \in A_\alpha$ for all $\alpha \in \Delta \Rightarrow s \gamma a \in A_\alpha$.

$s \gamma a \in A_\alpha$ for each $\alpha \in \Delta \Rightarrow s \gamma a \in \bigcap_{\alpha \in \Delta} A_\alpha \Rightarrow s \gamma a \in A$. Therefore A is a left Γ-semi sub near-field space of S. This completes the proof of the theorem.

Theorem 2.5: The union of any two left Γ-semi sub near-field spaces of a Γ- semi normal sub near-field space S is a left Γ-semi sub near-field space of S.

Proof: Let A_1, A_2 be two left Γ-semi sub near-field spaces of a Γ- semi normal sub near-field space S. Let $A = A_1 \cup A_2$.

Clearly A is a nonempty subset of S. Let $a \in A$, $s \in S$ and $\gamma \in \Gamma$.

$a \in A \Rightarrow a \in A_1 \cup A_2 \Rightarrow a \in A_1$ or $a \in A_2$.

If $a \in A_1$ then $a \in A_1$, $s \in S$, $\gamma \in \Gamma$, A_1 is a left Γ-semi sub near-field space of S $\Rightarrow s \gamma a \in A_1 \subseteq A_1 \cup A_2 = A$

$\Rightarrow s \gamma a \in A$.

Therefore $a \in A$, $s \in S$, $\gamma \in \Gamma \Rightarrow s \gamma a \in A$ and hence A is a left Γ-semi sub near-field space of S. This completes the proof of the theorem.

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