

# On a Class of Vector-Valued Sequences Associated with Multiplier Sequences

Binod Chandra Tripathy<sup>1</sup>, Sabita Mahanta<sup>2</sup>

Mathematical Sciences Division, Institute of Advanced Study in Science and Technology, Khanapara, Guwahati-781022, India

收稿日期 修回日期 网络版发布日期 接受日期

摘要 In this article we introduce the vector valued sequence

space  $m(E_k, \phi, \Lambda)$ , associated with the multiplier

sequence  $\Lambda = (\lambda_k)$  of non-zero complex numbers, and

the terms of the sequence are chosen from the seminormed spaces

$E_k$ , seminormed by  $f_k$  for all  $k \in \mathbb{N}$ . This generalizes the

sequence space  $m(\phi)$  introduced and studied by

Sargent<sup>[10]</sup>. We study some of its properties like solidity,

completeness, and obtain some inclusion results. We also

characterize the multiplier problem and obtain the corresponding

spaces dual to  $m(E_k, \phi, \Lambda)$ . We prove some general

results too.

关键词 [Multiplier sequence space, solid space, completeness, dual, symmetric space](#)

分类号

## 扩展功能

### 本文信息

▶ [Supporting info](#)

▶ [PDF\(0KB\)](#)

▶ [\[HTML全文\]\(0KB\)](#)

▶ [参考文献](#)

### 服务与反馈

▶ [把本文推荐给朋友](#)

▶ [加入我的书架](#)

▶ [加入引用管理器](#)

▶ [复制索引](#)

▶ [Email Alert](#)

▶ [文章反馈](#)

▶ [浏览反馈信息](#)

### 相关信息

▶ 本刊中 包含 “[Multiplier sequence space, solid space, completeness, dual, symmetric space](#)”的 相关文章

▶ 本文作者相关文章

· [Binod Chandra Tripathy](#)

· [Sabita Mahanta](#)

## Abstract

## Key words

DOI:

通讯作者 [sabitamahanta@yahoo.co.in](mailto:sabitamahanta@yahoo.co.in)