

Year: 2013

Vol.: 82

Fasc.: 1

**Title:** Characterizing injective operator space  $V$  for which  $I_{11}(V) \cong B(H)$

**Author(s):** Ali Reza Medghalchi and Hamed Nikpey

Let  $V \cong B(K, H)$  where  $H$  and  $K$  are Hilbert spaces. Then we know that  $I_{11}(V) \cong B(H)$ . Let  $V$  be an injective operator space. In this paper we recover the above result and show that  $I_{11}(V) \cong \oplus_{i=1}^n B(H_i)$  where  $H_1, \dots, H_n$  are Hilbert spaces if and only if there are Hilbert spaces  $K_1, \dots, K_n$  such that  $V \cong \oplus_{i=1}^n B(K_i, H_i)$ .

**Address:**

Ali Reza Medghalchi  
Department of Mathematics  
Tarbiat Moallem University  
50 Taleghani Avenue  
Tehran 15618  
Iran

**Address:**

Hamed Nikpey  
Department of Mathematics  
Tarbiat Moallem University  
50 Taleghani Avenue  
Tehran 15618  
Iran