

International Workshop on Dynamical Systems and Applications (IWDSA 2019)  
*In Memory of Prof. Dr. Aydın Tiriyaki*  
Gazi University, Ankara, Turkey, 3-4 May 2019

## Two problems in the theory of disjointness preserving operators

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### Abstract

Let  $G$  and  $H$  be Riesz spaces. An operator  $S : G \rightarrow H$  is called *disjointness preserving* if  $Sx \perp Sy$  for all  $x, y \in G$  satisfying  $x \perp y$  ( i.e.,  $|x| \wedge |y| = 0$  ). In this talk, our aim is to solve two problems in the theory of disjointness preserving operators. Firstly, we obtain the converse direction of Hart's Theorem which was given in [3]. As a result, we get affirmative solution of the open problem given by Abramovich and Kitover in [1].

**Key Words:** Riesz space, Disjointness preserving operator.

### References

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