

## ON MODULES WITH THE GSSP

Özgür Taşdemir\* and Fatih Karabacak†

\**Trakya University, Edirne, Turkey.*

†*Anadolu University, Eskisehir, Turkey.*

ABSTRACT. An  $R$ -module  $M$  has the *summand sum property* (briefly *SSP*) if the sum of any two direct summands is again a direct summand. The definition of SSP was first given by Garcia [2] and this definition together with its generalizations were later studied by many authors [1,3,5]. We say an  $R$ -module  $M$  has the *generalized summand sum property* (briefly *GSSP*), if the sum of any two direct summands is isomorphic to a direct summand of  $M$ . This is dual notion to the *generalized summand intersection property* (briefly *GSIP*) (which is a generalization of *summand intersection property* (*SIP*), and which is defined by Tasdemir and Karabacak in [4]) of modules, and GSSP is a generalization of SSP modules. In this study, the characterization of this property over rings and modules is investigated.

### References

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E-mail addresses: ozgurtasdemir@trakya.edu.tr and fatihkarabacak@anadolu.edu.tr.