

ADVANCES IN SIP (SSP) MODULES WITH THEIR GENERALIZATIONS

Özgür Taşdemir

Trakya University, Edirne, Turkey.

ABSTRACT. An R -module M has the *summand intersection (sum) property*, briefly *SIP (SSP)*, if the intersection (sum) of any two direct summands is again a direct summand. These definitions together with their generalizations were later studied by many authors. In this presentation, advances in SIP (SSP) modules with their generalizations will be presented.

References

- [1] M. ALKAN AND A. HARMANCI: *On summand sum and summand intersection property of modules*, Turk. J. Math. **26** (2002) 131-147.
- [2] J. L. GARCIA: *Properties of direct summands of modules*, Comm. Algebra, **17**(1) (1989) 73-92.
- [3] A. HAMDOUNI, A. HARMANCI AND A. C. OZCAN: *Characterization of modules and rings by the summand intersection property and the summand sum property*, JP Jour. Algebra Number Theory and Appl. **5**(3) (2005) 469-490.
- [4] J. HAUSEN: *Modules with the summand intersection property*, Comm. Algebra **17** (1) (1989) 135-148.
- [5] D. VALCAN: *Modules with the direct summand sum property*, Czech Math J. **53** 128 (2003) 277-287.
- [6] D. VALCAN: *Injective modules with the direct summand intersection property*, Sci. Bull. of Moldavian Academy of Sciences, Seria Mathematica **31** (1999) 39-50.
- [7] G. V. WILSON: *Modules with the summand intersection property*, Comm. Algebra **14** (1986) 21-38.

2000 *Mathematics Subject Classification* 16D10.

Key words and phrases: **summand intersection property, summand sum property.**

E-mail addresses: ozgurtasdemir@trakya.edu.tr.