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Jung Wook Lim* (jwlim@knu.ac.kr), Department of Mathematics, Kyungpook National University, Daegu, 702-701, South Korea. *A generalization of strong Mori domains.*

Let D be an integral domain, S be a (not necessarily saturated) multiplicative subset of D , w be the so-called w -operation on D , and M be a unitary D -module. As generalizations of strong Mori domains and strong Mori modules, we define D to be an S -strong Mori domain if each nonzero ideal I of D , there exist an $s \in S$ and a w -finite type ideal J of D such that $sI \subseteq J \subseteq I_w$; and M to be an S -strong Mori module if M is a w -module and for each nonzero submodule N of M , there exist an $s \in S$ and a w -finite type submodule F of N such that $sN \subseteq F \subseteq N_w$. In this talk, we present some properties of S -strong Mori domains and S -strong Mori modules. (This is a joint work with H. Kim and M.O. Kim.) (Received August 04, 2014)