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Jineon Baek, Hayan Nam* (hayann@uci.edu) and **Myungjun Yu**. *Order ideals, lattice paths, and core partitions.*

In this talk, we discuss the relationship between order ideals in a poset, lattice paths, and simultaneous core partitions. Exploiting this new perspective allows us to prove formulas for several classes of simultaneous core partitions with various restrictions. (Received September 25, 2018)