

1135-05-1656 **Jang Soo Kim*** (jangsookim@skku.edu), Department of Mathematics, Sungkyunkwan University, Suwon, South Korea. *Combinatorics of q-integrals.*

In this talk we give a combinatorial interpretation for q -integrals over order polytopes in terms of linear extensions or P -partitions. As applications, we give a combinatorial interpretation of Askey's q -Selberg integral, product formulas for reverse plane partitions and another proof of the hook length property of the d -complete posets due to Proctor. (Received September 24, 2017)