1067-05-914 **RJ Dolbin*** (rj.dolbin@pepperdine.edu), 24255 Pacific Coast Highway, Malibu, CA 90263.

Partitions, Young diagrams and ballot numbers.

In this talk I will discuss a generalization of results from a paper with Bennett, Chari and Manning. I will define an algorithm which associates to an arbitrary partition a certain subset of all partitions, and show that applying the algorithm ℓ times gives rise to a set whose cardinality is either a ballot number (the self dual case) or twice that ballot number. What makes this process interesting is the presence of an involution τ which arises naturally in our context, but does not translate nicely or naturally to other ballot-number-enumerating contexts, such as modified Dyck paths. (Received September 16, 2010)