1033-05-132 **Gabor Hetyei*** (ghetyei@uncc.edu), Department of Mathematics and Statistics, UNC-Charlotte, Charlotte, NC. Bernoulli type games and combinatorial enumeration.

We introduce a class of two-player games on posets with a rank function, in which each move of the winning strategy is unique. This allows to enumerate the kernel positions by rank. Our main example is a simple game in which the number of kernel positions of rank n is a signed factorial multiple of the n-th Bernoulli number of the second kind. A generalization of this game provides a combinatorial model for the degenerate Bernoulli numbers introduced by Carlitz. Using numerical integration formulas involving the Bernoulli numbers of the second kind, we show how to construct a scoring system such that the expected gain of a player becomes the integral of a given function on [0,1]. (Received September 08, 2007)