1116-12-2663 **Joseph Michael DiMuro*** (joseph.dimuro@biola.edu), 13800 Biola Ave., La Mirada, CA 90639. On On_p.

One of John Conway's creations is the Field On_2 . This Field consists of the Class of all ordinals, with the "minimal" definitions of addition and multiplication which turn the ordinals into a Field of characteristic 2. Much is known about the structure of this Field, due to the work of Hendrik Lenstra.

The question can then be asked: is there an analogous construction to turn the ordinals into a Field of characteristic p, for odd primes p? In this talk, we will give such a construction, and analyze the resulting Fields On_p . It turns out that there are strong similarities between the Fields On_p for all primes p. (Received September 22, 2015)