1093-13-244 Daniel Birmajer\* (abirmaj6@naz.edu), 4245 East Avenue, Rochester, NY 14618, and Juan Gil (jgil@psu.edu) and Michael D Weiner (mdw8@psu.edu). Factorization of Power Series over the Integers. Preliminary report.

We investigate the arithmetic properties of the ring of formal power series with integer coefficients and give an explicit factorization for certain reducible polynomials whose constant term is of the form  $p^w$  with p prime and w > 1. Our formulas are given in terms of partial Bell polynomials and rely on the inversion formula of Lagrange. (Received August 16, 2013)