

1107-11-231      **Michael Somos\*** (ms639@georgetown.edu). *Observations on Somos-4 polynomials*. Preliminary report.

Starting from the Somos-4 sequence, the speaker will discuss the progression to generalized Somos-4 sequences, Somos-4 polynomials, and generalized Somos-4 polynomials. The last can be described as a sequence of polynomials in six variables. If the six variables are replaced by specific simple rational combinations of these variables, the resulting homomorphism shifts the sequence by one term and thereby generates the entire sequence. (Received January 15, 2015)