1114-57-239   **Joel Hass**, **Abigail Thompson** and **Anastasiia Tsvietkova***, tsvietkova@math.ucdavis.edu.
The number of surfaces of fixed genus in an alternating link complement.

Let L be a prime alternating link with n crossings. We show that for each fixed g, the number of genus-g incompressible surfaces in the complement of L is bounded by a polynomial in n. Previous bounds were exponential in n. (Received August 28, 2015)