1125-17-2191 **Asilata Bapat*** (asilata@uga.edu) and **Robin Walters** (r.walters@neu.edu). *Bernstein–Sato polynomials and monodromy conjectures for Weyl arrangements.*

To a singularity of an algebraic hypersurface, one can associate a subtle invariant called the Bernstein–Sato polynomial or the b-function. The roots of the b-function recover several other known singularity invariants, so it is useful to understand the b-functions of interesting hypersurfaces.

We will consider the case of a Weyl hyperplane arrangement, which is the arrangement of roots in the root system of a semi-simple Lie algebra. For these hypersurfaces, we establish a link (conjectured by Denef–Loeser in the monodromy conjectures) between the b-function and another known invariant, namely the topological zeta function. (Received September 19, 2016)