

1154-32-597

David B Massey* (d.massey@northeastern.edu), Dept. of Mathematics, Northeastern University, Boston, MA 02115. *Characteristic Polar Cycles of Perverse Sheaves.*

Given a perverse sheaf, P , we will discuss the characteristic polar cycles of P and their relationship to the Chern-Schwartz-MacPherson class of P . We will discuss the calculation of the characteristic polar cycles and their relationship with the characteristic cycle of P . Our goal is to show that the characteristic polar cycles should be thought of as a calculable refinement of the data supplied by the Chern-Schwartz-MacPherson class of P , which uses only the stalk cohomology Euler characteristic data from P . When applied to the vanishing cycles along a function f , the characteristic polar cycles yield a refinement of the Chern-Schwartz-MacPherson class associated to the Euler characteristics of the Milnor fibers of f . (Received September 08, 2019)