

Meeting: 1001, Evanston, Illinois, SS 8A, Special Session on Computability Theory and Applications

1001-03-92 **Rebecca Weber*** (rweber@math.psu.edu), Penn State University Mathematics Department,
University Park, State College, PA 16802. *Invariance and degree in the lattice of Π_1^0 classes.*

We discuss a definable substructure of \mathcal{E}_{Π} , the lattice of Π_1^0 classes, called G , as well as G 's quotient G^\diamond . The structure G^\diamond has been shown isomorphic to the lattice of c.e. sets modulo finite difference, \mathcal{E}^* . Particular attention will be paid to invariance and Turing degree of elements of G and G^\diamond and how they relate to \mathcal{E}_{Π} . (Received August 16, 2004)