1064-03-325 **Keng Meng Ng*** (selwynng@math.wisc.edu), Department of Mathematics, University of Wisconsin, 480 Lincoln Drive, Madison, WI 53706-1388, Madison, WI 53706. *Degrees of members of* Π^0_1 *classes.*

Given a Turing degree **a** we say that **a** is realized in a Π^0_1 class P if P contains a path of degree **a**. In this talk we will give a selection of results regarding the possible classes of Turing degrees which can be realized in Π^0_1 classes. We discuss some recent joint work with various authors (Barbara Csima, Rod Downey, Liang Yu, Yue Yang). We show that given any c.e. degree **a** there is a perfect Π^0_1 class P which realizes **a** and no other c.e. degree. We also discuss the complexity of index sets which can be realized in this way. We show that there is an uncountable Π^0_1 class where every path has hyperimmune-free degree. (Received September 13, 2010)