QUASI-PROJECTIVE DIMENSION

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ABSTRACT. In this talk, I will introduce a homological invariant namely quasi-projective dimension, which is a generalization of the projective dimension. I will discuss the basic properties of quasi-projective dimension and compare it with other homological dimensions. In particular, I will show that the modules with finite quasi-projective dimension, in many cases, behave similarly as modules of finite complete intersection dimension. I also will address the open problems about the quasi-projective dimension.