Du Bois singularities and characteristic p analogs

Karl Schwede

Penn State University (USA)

In this talk I will discuss some recent results on Du Bois singularities, (a class of singularities with Hodge-theoretic origins). I will also discuss links with notions of singularities defined by the action of Frobenius in positive characterstic including some relations to vanishing theorems and global generation of certain sheaves.