

## ***p*-adic Hodge theory and the Griffiths group**

In his famous papers from the 1960's and 70's, Griffiths defined intermediate Jacobians for complex projective varieties using Hodge theory and used them to detect nontrivial cycles that are homologically, but not algebraically equivalent to zero. In work in progress, we use *p*-adic Hodge theory to study the Griffiths group consisting of such cycles, and gain some new insights into the structure of this group in certain cases such as rigid Calabi-Yau 3-folds.