Abelian varieties over ample fields of positive characteristic
(Joint work with Arno Fehm)

A field $K$ is called ample, if every smooth curve $C/K$ satisfies $C(K) = \emptyset$ or $|C(K)| = \infty$.

**Theorem.** Let $A$ be a non-zero abelian variety over an ample field $K$. Then the rank of the abelian group $A(K)$ is infinite.

In the special case $\text{char}(K) = 0$ we established this Theorem about one year ago. Now we can prove it in the (more complicated) case $\text{char}(K) > 0$ as well, making use of work of Ghioca and Moosa and of Kim on the Mordell-Lang conjecture in positive characteristic.