1142-14-92 **Omprokash Das***, University of California, Los Angeles, Math Science Building 6363, Los Angeles, CA 90095. Weak-Boundedness of Fano 3-folds in characteristic p>5.

Constructing the *moduli* of Fano varieties is one of the central problems in the moduli theory and the Minimal Model Program (MMP) in general. The first challenge towards constructing the moduli is proving the boundedness of the moduli functor. This problem is known as the Borisov-Alexeev-Borisov or the BAB conjecture. A weaker version of this conjecture roughly says that the top self-intersection of the anti-canonical divisors $(-K_X)^{\dim X}$ for all Fano varieties X is bounded from above; this is known as the Weak-BAB conjecture. Lots of people have contributed to the proofs of various special cases of these two conjectures in dimension at most 3 in characteristic 0. It is only in the recent years (2016) when Birkar made a breakthrough progress on the BAB conjecture, which lead to his Field Medal this year; In a series of papers, he proved that the BAB conjecture holds in full generality in characteristic 0 and in arbitrary dimension. On the other hand, very little is known on either of these two conjectures in positive characteristic in dimension 3 or higher. In this talk, I will show that a special case of the Weak-BAB conjecture holds for 3-folds in characteristic p > 5. (Received August 30, 2018)