

- ▶ JUAN PÉREZ, *Quantifier elimination for lovely pairs of Strongly geometric fields*.  
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This is a joint work with Pablo Cubides Kovacsics, Felipe Estrada and David Rincón [1]. Let  $T$  be a complete strongly geometric theory of fields with quantifier elimination. We show that the theory of lovely pairs of  $T$  has quantifier elimination in Delon's definitional expansion by predicates for linear independence and function symbols for the corresponding coordinate functions. Apart from recovering Delon's original results for pairs of algebraically closed fields and dense pairs of algebraically closed valued fields, we obtain as particular cases, quantifier elimination for theories of dense pairs of real closed and  $p$ -adically closed fields.

[1] P. CUBIDES KOVACSICS, F. ESTRADA, J. PÉREZ AND D. RINCÓN, *Quantifier elimination for lovely pairs of Strongly geometric fields*, **Preprint: arXiv:2603.06900**.