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On the ring of invariants of the third symmetric power representation of $SL(2, p)$

I will describe an explicit finite generating set for the ring of invariants for the third symmetric power representation of $SL(2, p)$. The proof that the described invariants generate relies on the construction of an infinite SAGBI basis and a Hilbert series computation.

The presentation will be based on work with my PhD student, Ashley Hobson.