1129-20-305 **Robert H Gilman*** (rgilman@stevens.edu), Stevens Institute of technology, Department of Mathematical Sciences, Hoboken, NJ 07030. *The generic complexity of coset enumeration.*

It is well known that most decision problems about finitely presented groups are undecidable. Every algorithm for such a problem must fail on some inputs. Generic complexity was proposed some years ago by Ilya Kapovich, Alexei Myasnikov, Paul Schupp, Vladimir Shpilrain as a method of estimating the efficacy of such algorithms. In this talk we see what generic complexity can tell us about the efficacy of coset enumeration, a well known algorithm for verifying that a finite presentation presents a finite group. (Received March 19, 2017)