# Vampire 4.8

*Reger, Suda, Voronkov, Kovács, Bhayat, Gleiss, Hajdu, Hozzová, Rath, Rawson, Schoisswohl*

https://vprover.github.io/

▶ General Approach: proof search using the Superposition Calculus (and finite model finding in UF)

▶ SMT Logics: A, DT, LIA, LRA, NIA, NRA, UF (all with quantifiers)

▶ Uses a portfolio of strategies
Parallel track: parallelize strategies
Cloud track: randomize problem and strategies per node

▶ Use Z3 for ground reasoning (AVATAR)

▶ New for arithmetic: ALASCA Calculus and new simplification rules