struction. Let R be a

ones. De ne the signature triple to be the $(A) = (p; z; n)$, where p is the number of positive eigenvalues, z is the multiplicity of zero as an eigenvalue, and n is the number of negative

L by the

The $r = \mathrm{rank}(\mathbf{A}; \mathbf{p})$ and $v = \mathrm{minpoly}(\mathbf{A}; \mathbf{p})$ algorithms used to compute the rank and the minimal polynomial of **A** mod p respectively are as in [17, 13, 4], for example. Here $\mathrm{minpoly}()$

of the

a xed facet. We have plotted the bit length d of the largest

Figure 5: Total run time