

1035-11-1032 **Bjarke Hammersholt Røne***, uniparken kollegium 8 v. 347, 8000 Aarhus C, Denmark.
Computing Frobenius Numbers Using Test Sets.

This talk will show how Groebner bases/test sets can be used to compute Frobenius numbers. The presented method also employs irreducible decomposition of a certain monomial ideal, which is closely related to Maximal Lattice Free Bodies (MLFB).

The algorithm can solve some Frobenius problems with previously intractably large numbers. It is in effect an enhancement of the algorithm by Einstein, Lichtblau, Strzebonski and Wagon. (Received September 18, 2007)