

1023-11-1584 **Kathleen Petersen*** (petersen@mast.queensu.ca). *The Euclidean Algorithm and Applications to Hyperbolic Geometry.*

We will discuss the Euclidean algorithm in both the number field and function field settings. After expounding recent developments, we will discuss several variations of the theme including an application to hyperbolic geometry. This is joint work with Ram Murty. (Received September 26, 2006)