1104-14-286 **Daniel Chan**, **Kenneth Chan**, **Louis de Thanhoffer de Volcsey**, **Colin Ingalls*** (cingallls@unb.ca), **Kelly Jabbusch**, **Sandor Kovacs**, **Rajesh Kulkarni**, **Boris Lerner** and **Basil Nanayakkara**. *Decorated Minimal Model Program.* Preliminary report.

We extend results of Chan and Ingalls concerning the minimal model program for orders over surfaces to all dimensions. A decoration gives a number for all divisors of all models of a variety. We show that every decorated variety has a terminal resolution. We further show that if one carries out log contractions then decorated terminal varieties remain decorated terminal. We show that one obtains a decoration from a Brauer class and that this can be used to give a minimal model program for orders over varieties in all dimensions. (Received September 03, 2014)