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Marco Schlichting* (mschlich@math.lsu.edu), Department of Mathematics, Louisiana State University, Baton Rouge, LA 70803-4918. *Higher Grothendieck-Witt groups of schemes.*

We explain localization and (Zariski-) Mayer-Vietoris for higher Grothendieck-Witt groups, alias hermitian K-theory, of schemes admitting an ample family of line bundles. No assumption on the characteristic is needed, and our schemes can be singular. (Received January 30, 2008)