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**Kazuma Shimomoto\*** ([shimo027@umn.edu](mailto:shimo027@umn.edu)), University of Minnesota, School of Mathematics, Minneapolis, MN 55455. *The localization property for varieties having F-rational singularities*. Preliminary report.

F-rational singularities are the characteristic  $p$  counterpart to rational singularities, which are defined via the resolution of singularities. Elkik studied the geometric properties of rational singularities using the Grothendieck duality. Parallel to Elkik's results, we will talk about what happens to F-rational varieties. (Received December 28, 2006)