

**Meeting:** 998, Houston, Texas, SS 21A, Special Session on Homological Algebra of Commutative Rings

998-13-211      **Yuji Yoshino\*** (yoshino@math.okayama-u.ac.jp), Math. Dept., Faculty of Science, Okayama University, 700-8530 Okayama, Okayama, Japan. *A functorial approach to modules of G-dimension zero.* Preliminary report.

Let  $\mathcal{G}$  be the category of modules of G-dimension zero over a commutative Noetherian ring, and let  $\underline{\mathcal{G}}$  be the associated stable category. We will show that the functor category  $\text{mod } \underline{\mathcal{G}}$  is a Frobenius category. We will also discuss how this property could characterize the category  $\mathcal{G}$ .

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