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**Jesper Grodal\*** (jg@ias.edu), School of Mathematics, Institute for Advanced Study, Einstein Drive, Princeton, NJ 08540. *Homotopy representation theory.*

I will calculate the monoid of vector bundles over the classifying space  $BG$  of various finite groups  $G$ , as well as the analogous " $p$ -vector bundles"  $[BG_p^\wedge, \coprod_n BO(n)_p^\wedge]$ . I will discuss how this relates to the general philosophy of viewing the  $p$ -completed classifying space  $BG_p^\wedge$  as a  $p$ -local analog of the finite group  $G$ . (Received October 03, 2000)