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Min Kyu Kim* (mkkim@kias.re.kr), Department of Mathematics Education, Gyeongin National University of Education, San 59-12, Gyesan-dong, Gyeyang-gu, Incheon, 407-753, South Korea. *Equivariant vector bundles over 2-sphere.*

Equivariant topological complex vector bundles over 2-sphere under a compact Lie group (not necessarily effective) action are classified. We show that nonequivariant Chern classes and isotropy representations at (at most) 3 points are sufficient to classify isotypical components of equivariant vector bundles over 2-sphere. (Received October 18, 2011)