1077-57-471 **Ryo Ohashi*** (ryoohashi@kings.edu), King's College, Department of Mathematics, Wilkes-Barre, PA 18711. *The finite group actions on prism manifolds.* Preliminary report.

A prism manifold is an elliptic manifold whose universal covering space is the three sphere. It is well known fact that these manifolds are Seifert fibered spaces. Further, there is a one-to-one correspondence between its fundamental group and topological structure.

In the first part of my talk, we will learn how to construct a prism manifold topologically. Secondly, we will see all isometry groups acting on each prism manifold, which is always an infinite group.

Thus, it is natural to ask "what are their finite subgroups?" There is a handy method to compute all finite subgroups of an infinite group. By using the method, we will classify all of such finite subgroups. Further, it will be addressed finite actions that a preserve fiber.

Note that the content of the talk is definitely accessible for graduate students who are interested in 3-manifold. (Received September 03, 2011)