



## **Abstract:**

**In this talk, we will introduced extended Lorentz cones and applied it on complementarity problems and variational inequalities. By the previous papers, we know that the Nash equilibrium problem can be transformed into a variational inequality. So, we applied our results and showed a class of Nash equilibrium problems can be solved in same way. Similarly, we showed that a class of conic optimization problems can be formulated as complementarity problems and then solved by our previous results. Then we will introduce positive operators of extended Lorentz cones and show some properties of these kind of Linear operators.**

**欢迎大家参加！**