

**Meeting:** 1003, Atlanta, Georgia, AMS CP 1, AMS Contributed Paper Session

1003-54-230      **Hueytzen J Wu\*** (kfhjw00@tamuk.edu), Texas A&M University-Kingsville, Department of Mathematics MSC 172, Kingsville, TX 78363, and **Wan-Hong Wu**, UT Health Sciences Center at San Antonio, Department of Pharmacology, San Antonio, TX 78229-3900. *An Open C\*-filter Process Of Compactification And Its Descriptions Of Stone-Cech, Wallman Compactifications.*

By a characterization of compact sapce in term of open C\*-filter, an open C\*-filter process of compactification of any arbitrary topological space X is obtained. By using two different collections of open C\*-filters, the process will obtain the Stone-Cech compactification of a Tychonoff space and the Wallman compactification of a normal T1-space. Furthermore, it can be shown that the two collections of open C\*-filters for obtaining the Stone-Cech and Wallman compactifications of a normal T1-space are exactly the same. And therefore, the homeomorphism of the Stone-Cech and Wallman compactification of a normal T1-space is achieved. (Received August 31, 2004)