1063-94-59   **Yuichiro Kakihara*** (`ykakihar@csusb.edu`), 5500 University Parkway, San Bernardino, CA 92407. *Information channels and channel operators.* Preliminary report.

Define the pointwise weak* topology on the set $\mathcal{O}$ of all channel operators with some input and output. The set $\mathcal{C}$ of all information channels is regarded as a subset of $\mathcal{O}$. Then, an approximation of an operator in $\mathcal{O}$ by a sequence of channels in $\mathcal{C}$ with respect to the pointwise weak* topology is considered. (Received August 01, 2010)