

**11/1 Lecture Summary**  
**Professor Kazuhiko Hasegawa**

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During the lecture of 1/11, we discussed many important points about Professor Ohtsu's lecture about Correlation Function, Fourier analysis and Spectrum, and among all the points established by the students present during that day, we can say that the main point about this lecture was to explain us about an efficient method to change stochastic (probabilistic) behavior such as the one of waves into a statistical behavior which is more easy to deal with. However all of this methods could not be possible, without the work of brilliant professionals such as Norbert Wiener, that is why we also made mention of his work among the key points of Professor Ohtsu's lecture.

Also during the lecture of 1/11 we spoke about block diagrams which are a very useful tool to explain different systems by graphical means. The block diagrams consist of three essential elements: two arrows and one box, one of these arrows represents the input to the system we want to explain, and the other arrow represents the output of this system. However between these two arrows which are also important, I think the most important of the three elements is the box, because it contains the mathematical expression that relates the output with the input, so this element is the one which is going to give us the expected results.