

**Statistics Seminar**  
Department of Mathematical Sciences

<b>DATE:</b>	Thursday, November 20, 2014
<b>TIME:</b>	1:15pm to 2:15pm
<b>PLACE:</b>	OW 100E
<b>SPEAKER:</b>	Nan Bi (Binghamton University)
<b>TITLE:</b>	Paper review on "Clustering Stability: An Overview"

**Abstract**

A popular method for selecting the number of clusters is based on stability arguments: one chooses the number of clusters such that the corresponding clustering results are "most stable". In recent years, a series of papers has analyzed the behavior of this method from a theoretical point of view. However, the results are very technical and difficult to interpret for non-experts. In this monograph we give a high-level overview about the existing literature on clustering stability. In addition to presenting the results in a slightly informal but accessible way, we relate them to each other and discuss their different implications.

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Last update: **2014/12/04 19:41**

