

Seminar

# Generalized Shannon Capacity (Intro.)

The student will study the fundamental result introduced for the [Sperner capacity](#).

S/he start with understanding the [Sperner Theorem](#).

The connection to [Zero-Undetected-Error capacity](#) will be investigated and it would be understood why and in which sense the **Sperner capacity** is called **generalized zero error capacity**.

A [conjecture of Ahlswede](#) and its proof by **other authors** will be reviewed.

As well, the relation to **r-cover families** will be also considered.

## Prerequisites

Interested students as first step should contact me **directly** and send me a **CV** as well as the academic **transcripts** and **relevant courses** that they have attended.

Also the Basics of below are required to be known:

1. Graph Theory
2. Zero Error Capacity
3. r-Cover Family

## Advisors

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