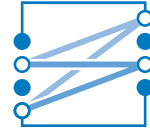




TECHNISCHE UNIVERSITÄT MÜNCHEN
LEHRSTUHL FÜR NACHRICHTENTECHNIK
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Master's Thesis

Software implementation of Polar codec for 5G

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München, xx.xx.20xx

Ort, Datum (Yadhunandana Rajathadripura Kumaraiah)

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Abstract

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1 Introduction

In 1948, scientists at the Bell Laboratories achieved two landmark research results: Claude E. Shannon published his paper *A mathematical theory of communication* [Sha48], and John Bardeen, Walter Brattain and William Shockley announced the invention of the *transistor effect*.

A binomial distribution is shown in Figure 1.1.

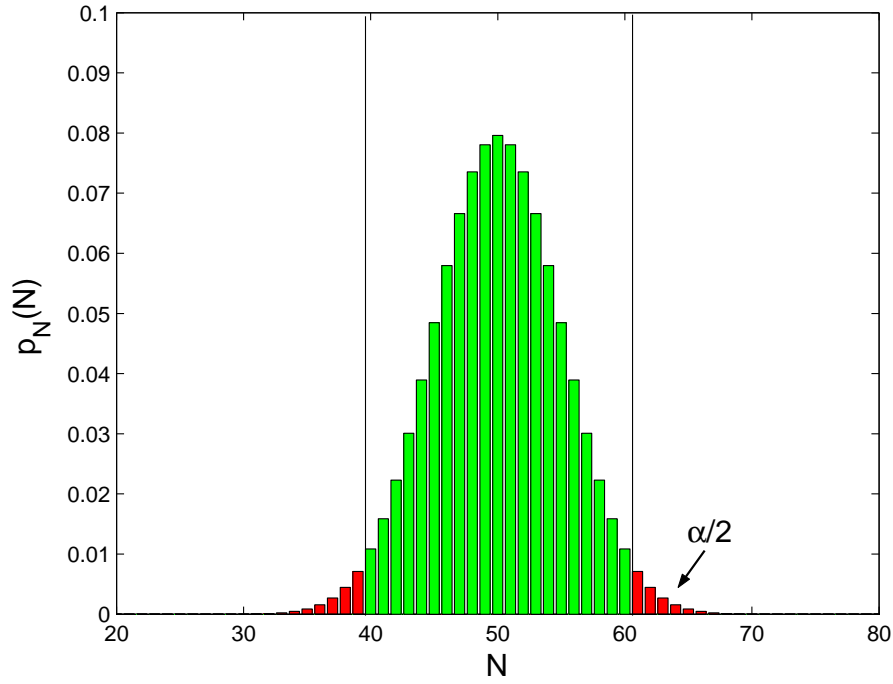


Figure 1.1: PDF $p_N(N)$ of the number N of times that the head side is up.

For further information, the reader is referred to [CT91, Cla01, Sac92, Pan03, BGT93, Che03, Onk02, Hag01, Wei].

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