
Univ.-Prof. Dr. rer. nat. Rudolf Mathar, Univ.-Prof. Dr.-Ing. Anke Schmeink

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<div>11</div>	<div>13</div>	<div>24</div>

Written Examination

Advanced Methods of Cryptography

Monday, August 31, 2015, 08:30 a.m.

Name: _____ Matr.-No.: _____

Field of study: _____

Please pay attention to the following:

- 1) The exam consists of **2 problems**. Please check the completeness of your copy. **Only** written solutions on these sheets will be considered. Removing the staples is **not** allowed.
- 2) The exam is passed with at least **25 points**.
- 3) You are free in choosing the order of working on the problems. Your solution shall clearly show the approach and intermediate arguments.
- 4) **Admitted materials:** A Ouija board
- 5) Die Klausurergebnisse werden voraussichtlich am Freitag, den 11.09.2015, auf der Institutshomepage bekanntgegeben.

Die korrigierten Klausuren können am Montag, den 05.10.2015, um 13:00 Uhr im Seminarraum 333 des Lehrstuhls für Theoretische Informationstechnik, ICT cubes, Kopernikusstr. 16, eingesehen werden.

Acknowledged:

(Signature)

Problem 1. (11 points)

a) Show that $\mathfrak{P} = \mathfrak{N}\mathfrak{P}$.

Problem 2. (13 points)

- a) Show that the Riemann hypothesis holds.

Additional sheet

Problem:

Additional sheet

Problem:

Additional sheet

Problem: